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1900

ANNUAL REPORT

OF THE

Departments of Government

OF THE

CITY OF CLEVELAND

FOR THE

Year Ending December 31, 1897.

THE BROOKS CO., CLEVELAND, O.
1898.

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1897.

City Government
OF THE
CITY OF CLEVELAND.

MAYOR,
HON. ROBERT E. MCKISSON.

DIRECTOR OF LAW,
MINER G. NORTON.

DIRECTOR OF PUBLIC WORKS,
GEORGE R. WARDEN.

DIRECTOR OF POLICE,
EDWARD A. ABBOTT.

DIRECTOR OF FIRE SERVICE,
GEORGE L. HECHLER.

DIRECTOR OF ACCOUNTS,
HORACE L. ROSSITER.

DIRECTOR OF CHARITIES AND CORRECTION,
WILLIAM J. AKERS.

CITY TREASURER,
CHARLES W. CHASE.

CITY CLERK,
HOWARD H. BURGESS.

MAYOR'S SECRETARY AND SECRETARY OF THE BOARD OF CONTROL,
EDWARD A. ROBERTS.

COUNCIL.

1897-'98.

OFFICERS.

FRANK A. EMERSON,
PRESIDENT.

C. A. WITZEL,
VICE-PRESIDENT.

MEMBERS OF THE COUNCIL.

WARDS.	DIST.	NAMES.	RESIDENCE.	PLACE OF BUSINESS.	TEL.
1-2 } 3-4 }	1	{ † Frank Billman... * Dr. D. B. Steuer.	The Stillman 465 St. Clair St..	931 Society for Savings, Tel. 103 465 St. Clair St.....	2025 2393
5-6 } 7-8 }	2	{ † Chas P. Dryden . * P. J. McKenney..	386 N. Perry St. 21 Kelley St.....	..... 21 Kelley St	4094
9-18 } 19 }	3	{ † C. I. Dailey * H. M. Case.....	281 Hough Ave . 64 Sixth Ave....	HP. Nail Co..... Cor. Central & Canal, Tel. 2760.	877 3828
10-11 } 12-14 }	4	{ † Morris Black..... * G. H. Billman ..•	868 Case Ave.... 873 Prospect St .	830 Society for Savings 931 Society for Savings.....	528 103
13-15 } 16-17 }	5	{ † W. I. Thompson . * C. A. Witzel.....	612 Orange St... 173 Arlington St	612 Orange St..... Valley freight office, Tel. 301...	897 2795
20-21 } 22-23 }	6	{ † D. F. Reynolds, Jr. * C. W. Toland.....	24 Clarkwood Av 172 Quincy St...	Case Building, Tel. 326..... 729 Society for Savings.....	3080 1202
24-25 } 26-27 }	7	{ † J. F. Palmer..... * W. R. Hopkins...	1528 Broadway.. 47 Jones Ave ...	..... W. R. U. Law School.....	2558 2860
28-29 } 30-34 }	8	{ † Michael Riley.... * M. F. Barrett....	241 Washington. 240 Washington.	N. Y., P. & O. Ore Docks..... Cleveland Bronze Works.....	1541 3759
31-32 } 33-41 }	9	{ † C. E. Benham.... * D. H. Lucas.....	1381 Detroit St.. 106 Scott St.....	610 Perry-Payne..... 194 Bank St.....	170 665
35-36 } 40 }	10	{ † W. H. Stinchcomb * Charles H. Miller	1987 Denison Av 696 Lorain St...	L. S. & M. S. Freight Depot.... 696 Lorain St.....	632 1511
37-38 } 39-42 }	11	{ † F. A. Emerson.... * F. F. Klingman..	55 Branch Ave.. 75 Archwood Av	..... 737 Society for Sav. Home Tel..	2233 22

† Term expires April, 1898. * Term expires April, 1899. Republicans in Roman. Dem. in *Italic*.

STANDING COMMITTEES—CITY COUNCIL.

1897-'98.

Appropriations	Reynolds, Black, Barrett.
Charities and Correction.....	Miller, Riley, Klingman.
Claims and Accounts	Dryden, Dailey, Witzel.
City Property.....	Witzel, Dryden, McKenney.
City Hall	{ Emerson, Witzel, Benham, Riley, Stinchcomb, Dryden.
Department Examination	Black, Lucas, Hopkins.
Finance.....	Steuer, Reynolds, Dailey.
Fire.....	Dailey, Klingman, Miller.
Harbors and Wharves	Benham, Barrett, F. Billman.
Health and Cleanliness	F. Billman, Steuer, McKenney.
Judiciary	Klingman, Black, Reynolds.
Legislation.....	{ Mayor (chairman), City Clerk (Secretary), Corporation Counsel, Director of Accounts, President of the Council, Steuer, McKenney, Klingman, G. H. Billman.
Licenses	Hopkins, Miller, Steuer.
Labor.....	G. H. Billman, Case, Toland.
Lighting.	Thompson, Stinchcomb, Witzel.
Military	Toland, Hopkins, G. H. Billman.
Ordinances.....	McKenney, Stinchcomb, Thompson.
Police.....	Case, Benham, Dailey.
Printing.....	Riley, F. Billman, Case.
Public Works.....	Palmer, Reynolds, Thompson.
Public Officers and Offices	Barrett, G. H. Billman, Toland.
Streets and Railways.....	Lucas, Palmer, Barrett.
Taxes and Assessments.....	Reynolds, Lucas, Palmer.
Telephones and Telegraphs.....	Stinchcomb, Steuer, Palmer.

REPORTS

OF

THE MAYOR, DIRECTORS

AND

CITY OFFICERS.

VIEW OF THE LAKE FRONT.

Showing Pile and Timber Protections at Erie Street Where Improvements Are Now in Progress.

Mayor's Message.

CLEVELAND, April 18, 1898.

To the Honorable Council:

GENTLEMEN.—It is wisely provided that at least once a year a statement shall be made to you and through you to the public reciting the condition of our municipality, its departments and institutions, and communicating such plans and recommendations as may be formulated by the executive branch of the City Government for your future consideration and the mutual advantage of your various constituencies. The city is a business corporation in which every taxpayer is a stockholder, each sharing alike the privileges of citizenship and having a like voice, regardless of wealth or distinction, in directing the general management of affairs. Only when this broad view is taken can any city administration accomplish proper results, and only on this basis can all the people receive that to which they are justly entitled.

The past year has been one of substantial progress for Cleveland. No city in the United States, I believe, can show a better record for industrial and commercial growth, for interior improvements or for the rapid accumulation of civic strength. Cleveland has been favored with a revival in business which has benefited alike the manufacturers, the merchants and the toilers. The health of the people has been good, statistics showing a marked decrease in the mortality lists. Our population has steadily increased until there can be no doubt that this city is the metropolis of Ohio, and is fast approaching in importance and greatness the first cities of the land.

The attention of the City Administration during the year has been directed largely to the pushing of work on the important

municipal enterprises started by it early in its career, among which are the widening and deepening of the Cuyahoga river and improvements on the lake front, the building of the new east side water tunnel, the construction of the intercepting and Walworth Run sewers, the provision of a sanitary system of garbage disposal, the building of the Willson avenue viaduct and the Willow street bridge and other notable undertakings, all of which have for many years been agitated by the people and urgently demanded for the good of the city. The securing of legislation and the laying of plans for the commencement of work on a new City Hall is an accomplishment now assured as the result of patriotic assistance rendered the Administration by all public-spirited citizens. All of these subjects are, however, considered in detail in their proper order.

In concluding the work of the year, I would be ungrateful did I not express my thanks to the retiring members of the Council for the assistance they have rendered in the conduct of city business. It is my hope that the Administration during the coming year may merit and receive the friendship and aid of the new Council in promoting such measures as will be for the interest of the people and the continued and permanent advancement of our municipality.

PUBLIC FRANCHISES.

In my message, one year ago, special prominence was given to the subject of franchises, and as this continues to be the most vital of all the pending municipal issues, I will again give it the precedence which I believe it deserves. During the year the situation has materially improved in so far as the danger of the granting of a long-term franchise to the street railway companies is concerned, this improvement having been brought about by the repeal of the vicious Rogers' fifty-year franchise law at Columbus at the outset of the present session of the Legislature. The hearty support of the administration was given to the movement to wipe this law from the statute books, and it was done with unanimity, to the great satisfaction of the residents of Cleveland whose interests were directly affected. No attempt to re-enact the law or any similar measure has been made, so that it is

effectually killed. Had it not been for the vigorous opposition of the administration and the public generally to the application of this law to Cleveland, in other words, had the street railroads been given their way, this city would in all probability be now bound by a fifty-year mortgage of its public streets as is our sister city of Cincinnati.

To obtain from the street railroad and other corporations a just return for the valuable privileges granted is, without question, the unanimous desire of the masses of the people. This was the most important question the retiring Council had to consider and will probably be the most important to come before the Council which has just been seated. Corporations are naturally anxious to hold fast all they have received, no matter how freely it has come, and to reach out for all they can get regardless of popular rights. Every effort to oppose this policy is met with all the power which they are capable of wielding. This fact was clearly demonstrated during the last year in what was the most remarkable campaign ever waged in this city for lower street car fares. Believing that the people were entitled to better arrangements with the street railroad companies than now exist, such belief being founded upon reservations made in the original grants to the companies which gave the city the right to reduce fares, an ordinance was introduced in the Council last August to lower the rate of fare on the Woodland avenue line, the intention being to follow this with other ordinances under similar reservations. The ordinance provided originally that the cash fare should be four cents, except between 5 and 8 o'clock in the morning, and 4:30 and 7 o'clock in the evening when it should be three cents. The companies, by the terms of the ordinance, were to sell eight tickets for twenty-five cents between 5 and 8 o'clock in the morning and 4:30 and 7 o'clock in the evening, and six tickets for twenty-five cents at other times. A substitute ordinance, was, however, drawn to comply with the ruling of the Law Department that different rates of fare could not be legally fixed under existing grants for different hours, and this substitute was pronounced legal. It provided for a four cent cash fare and the sale of seven tickets for twenty-five cents. Great public interest was manifested in the progress of the measure, meetings being held nightly in various parts of the

MAKING CITY LAND ON THE LAKE FRONT AT ERIE STREET.

city. While the ordinance was pending, a committee was appointed by the Council to investigate the books of the Cleveland City Railway Company, and having done so to make a report. A joint committee of the Council and Board of Control was also constituted to consider the ordinance, and held numerous meetings attended by representatives of the railway companies. Owing to the reported disposition of the companies to compromise with the city and yield a just return for its privileges, a special committee consisting of the Mayor, Director of Law, Director of Accounts and three members of the Council was appointed to receive propositions. It was soon found that no concessions would be made by the companies on any basis except that of a new franchise covering all lines for twenty-five years from date. The report of the committee's deliberations with certain correspondence relating thereto was made to the Council on October 4, 1897, when a vote was finally taken on the ordinance. Notwithstanding the public demand for the passage of the measure it was lost by a tie vote. An effort was made to reconsider the vote at a subsequent session and again on October 18, but those efforts likewise failed by a tie vote; the reasons for which were apparent to all.

The city was then put on the defensive by the introduction of a most iniquitous ordinance late in October, providing for the granting of a twenty-five-year franchise, the companies to sell six tickets for twenty-five cents and pay a percentage of gross receipts into the City Treasury, namely, three per cent. for the first eight years, four per cent. for the eight years following, and five per cent. for the concluding nine years, the city, however, to relieve the companies from all paving obligations. So great was the opposition among the people to the passage of this ordinance that it was withdrawn and referred on December 13, 1897, to a Commission to be composed of representatives from the Chamber of Commerce, the City Government and the street railways. The Chamber of Commerce and City Government appointed their representatives, but the street railways refused to co-operate. A second low-fare ordinance was introduced in the Council on November 8, 1897, relating to the Euclid avenue and Cedar avenue lines, but action on this was also delayed pending the outcome of the joint committee's investigation.

NEW FOURTH PRECINCT POLICE STATION, CORNER WILSON AVENUE AND PERKINS AVENUE.
(This Station Was Built Within Estimate and Appropriation.)

There seems to be no valid reason why the city should not test its rights under existing franchises, which are subject to the State law, and thus settle the question once for all whether the companies are absolute in their control of affairs or whether the people's rights shall not prevail. I trust that steps will again be taken at the proper time to do this, believing that the people are looking to the present Council, which was elected mainly on this issue, for better results than have heretofore been obtained. There should not, in my judgment, be granted any extension or renewal of the present franchises until the expiration of the shortest one in 1904. Then, if renewed, all should expire at the same time. The reasons for this are many and have been clearly exploited heretofore. As for the policy of the Administration during the coming year it is perhaps only necessary to say that it will be the policy which has always been maintained, namely, that no new franchise shall be granted by the city without an adequate return, and that each citizen shall be accorded every benefit obtainable under those now existing. In the latter connection I believe the companies should be compelled to run sufficient cars to provide seats for each passenger and abolish the pernicious custom of overcrowding.

In the four years which this subject has been under my special thought and observation, I have concluded that it would be well for the Council to consider whether the time has not come when the city should prepare to own the roadbed and tracks in its streets and lease the use of the same to the bidder which will give the most for the privilege and render the best service. Many cities are now considering this question, realizing that franchises are among the most valuable rights any city can possess, and that if properly handled for the general welfare, instead of the private enrichment of the few, a great deal of benefit may accrue to every citizen. If thus put up at public auction and sold to the highest competitive bidder, the franchises of the City of Cleveland, instead of bringing \$6,600 by way of car licenses as now, would undoubtedly yield over a million dollars annually, to say nothing of the advantage of lower fares and the marked reduction in the general tax rate which this income would allow.

Although the street railroad companies have complied quite generally with the demand that their cars be equipped with vestibules for the protection of motormen and gripmen, it was found in February that some cars were still running without such equipment. These cases were investigated and reports were made to the Prosecuting Attorney of the County with a view to securing indictments against the companies, should the law not be immediately complied with. The procedure had the desired effect, the cars having been equipped with vestibules at once so that now the vestibuling of cars may be said to be entirely complete.

The recognized wisdom of establishing a comprehensive and complete underground conduit system for police, fire alarm, telegraph and telephone wires leads me to advise that steps be taken at once for the construction of such system by the city to be owned by it, and space therein to be leased at fixed rentals to the Companies desiring to share its use. It is necessary that this matter should receive attention without delay if it is to be properly handled. Practically all of the wires in the down-town district are now underground, and as the city grows and expands the need of an adequate conduit system becomes more and more apparent. In addition, I believe the city can and should receive a return from this class of corporations for use of the streets as well as from the surface railroads.

THE LAKE FRONT CASES.

In order to terminate, if possible, the long-standing dispute between the city and various railroad corporations over the ownership and control of a portion of the lake front, the administration early in August decided upon a plan which was submitted to your Honorable Body in a special message, in which you concurred, providing for the appointment of a special legal commission, consisting of Judge George L. Phillips and Hon. James Lawrence to co-operate with the Law Department and proceed with the settlement of the differences, and forever establish the rightful ownership of the lake front property. These attorneys at once entered upon the duties assigned them and have made monthly reports to the Council indicating the pro-

gress made. After careful deliberation it was decided to take up the case involving the tract of land constituting a part of Bath street and lying east of the Cuyahoga river and press it for trial in the Court of Common Pleas. In the spirit of fairness, however, counsel for the Pennsylvania Company, the Lake Shore R. R. Co., the C. C. C. & St. L. R. R. Co., and the Cleveland and Pittsburgh R. R. Co., defendants, were invited to a conference to see if an amicable adjustment could be made. The result of this conference was unsatisfactory and preparations were continued for a trial of the case. A few days prior to the day set for the hearing, without notice to the city, the Pennsylvania Company filed in the United States Court a petition and affidavits for the removal of the case to that Court for trial, and such request was granted, the defendants alleging that because of prejudice and local influence it could not obtain justice in the State Courts. An application was made by the City's attorneys to remand the case to the State Courts, but this was refused, and it will therefore be necessary to try the case in the Federal Courts. Whatever the outcome, it is important that the rights involved may be settled once for all. It is expected that a decision may be reached within the next few months and this troublesome question be disposed of.

FINANCIAL STATEMENT.

The past year has been one of great financial gain to our city, and it affords the administration no little pleasure to be able to make so good a report. With a cash balance at the opening of the current year of \$1,988,126.37; with Sinking Funds whose par value amounts to \$2,156,820.90; with a net excess of assets over all liabilities of \$28,633,578.60; with all bills paid and no floating indebtedness or overdrawn accounts, Cleveland is to-day looked upon from all quarters as an example of a gilt edge municipality. This fact is clearly shown by the activity which bond buyers from all over the country have displayed in bidding for the city's bonds when such have been placed on sale. Cleveland bonds are four-per-cents, while only a few years ago all bonds were sold at par with an interest charge of from six to seven per cent. Cleveland bonds are not "payable in gold" as are the bonds

NEW ENGINE HOUSE No. 26, KINSMAN STREET.
First Engine House Built in This City Within Estimate and Without "Extras."

of many of the other American cities, but are sustained by the faith and credit of our city alone. Nevertheless, the premiums offered upon them have been such as to bring the net rate of interest to be paid upon them down to $3\frac{1}{8}$ per cent. Particular notice is called to the fact that while our bonds are selling at premiums requiring that we pay only $3\frac{1}{8}$ per cent. interest, yet the depositaries in which the city funds are placed are paying us 3.26 per cent. interest on the average daily cash balances in bank, and after the first of July next under our contract made in December, 1897, the interest rate will be 3.37 per cent. on same, or, in other words, *we are earning a greater rate of interest on the money which the city has on deposit than the city is required to pay on the bonds which it has issued.* In this respect Cleveland occupies a unique and gratifying position.

The Auditor's report shows an increase in the Treasury cash balance at the end of the year of \$178,023.44; an increase in the Sinking Funds of \$148,015.84; an increase in the total assets of the city of \$2,981,340.09. By way of explanation it may be said that while bonds and notes *for public improvements* were issued to the amount of \$2,111,960.00, yet at the same time it has been the policy of the administration to pay off maturing obligations instead of refunding them as has been the usual custom heretofore. Old bonds and notes were redeemed and cancelled in 1897 amounting to \$786,594.66, so that the excess of assets over all liabilities at the close of the year is \$28,633,578.60, as formerly stated, or a net gain during the year of \$1,653,430.75. The issue of bonds and notes above mentioned were as follows:

For Extension of Water Works Tunnel and Plant,	\$ 200,000.00
For River Widening.....	250,000.00
For Intercepting Sewer, Walworth Sewer and other	
Main Sewers.....	498,000.00
For Construction and Re-construction of Bridges..	244,000.00
For Park Purposes	600,000.00
For Street Improvements, (paving, sewers, etc.)...	319,960.00
	<hr/>
	\$2,111,960.00

There has been a systematic and persistent cutting down of expenses in every department and a large increase in the earnings or income of the city outside of taxes. Notwithstanding

WOODEN BRIDGE TO THE LAKE AT SENECA STREET.

Used For Passage of Carts and Wagons to the Location Where the Filling in Process is Under Way.

the fact that the water works plant has been largely increased, entailing an additional expense of nearly \$15,000 that the increase to the Police Force necessitated an annual additional expense of \$25,000, and that the increase in the annual expense of maintenance of parks was over \$42,000, all of which was necessary, nevertheless this has been fully offset by the lessening of expenses in other directions. There has been a marked decrease in the cost of operating the Bridge, Market, Sanitary, House of Correction and other departments, despite the gradual increase in population of the city and the consequent increase of demands made upon these departments, this being clearly indicated by reference to a few of the departments where important reductions are now permanently established. The House of Correction still continues to be more than self-supporting, showing a profit for the year 1897 over and above all expenses of \$4,813.81. The Water Works yielded a net profit of \$370,029.92; the markets a profit of \$38,231.07, and the cemeteries a profit of \$2,591.93.

The amount paid for interest in 1897 (deducting accrued interest received on sale of bonds) was \$484,563.91, as against \$476,638.29 in 1896; \$528,747.96 in 1895, and \$533,255.37 in 1894. In 1898 the interest to be paid will be \$468,197.90, or a smaller amount than for any of the years named, notwithstanding the fact that during the last three years more and greater public improvements have been made than for twenty years previous. It will be seen by this that no increase of the tax rate on account of interest, as has been suggested by some of the opponents of the large public improvements now under way, need be feared or expected. During the last three years bonds and notes have been redeemed and paid amounting to \$4,264,237.98, nearly all of which have been bearing 5 and 6 per cent. interest, and some as high as 7 per cent. The class of bonds which have been issued during the present administration have been for permanent public improvements and are at a low rate of interest and made payable in from 20 to 30 years, while heretofore bonds were largely issued for general purposes and at higher rates of interest. The burden upon the people, as was stated in the last Annual Message, will not be increased to any appreciable extent on account of such improvements.

At this point I desire to contradict certain false statements made by opponents of these improvements to the effect that the administration has caused the tax rate to rapidly increase. It is only necessary to refer to the facts in the case to disprove such claims. In making the analysis of the present tax rate of \$29.30 per \$1,000 valuation it should be borne in mind that it is the *composite rate* for state, county, school, library and city purposes, and that the administration is concerned only in the levy for *municipal purposes*. The comparisons of the municipal levy show that the tax rate for municipal purposes *has been cut down* the past year from \$13.75 per \$1,000 valuation on the duplicate in 1897, to \$13.60 per \$1,000 valuation in 1898. *This is the lowest levy for municipal purposes in 20 years except the rate in 1886 and 1892.* In 1886 bonds were issued for paving, while in 1892 no levy was made for paying off any of the bonded indebtedness. The increase in the total levy has come from county and school and library sources. In proof of this the following table is presented giving a comparison of the levies for the past 18 years :

Year.	State Levy per \$1000.	County Levy per \$1000.	School and Library Levy per \$1000.	City Levy per \$1000.	Total Levy per \$1000.
1880.....	\$2 90	\$2 90	\$4 75	\$15 75	\$26 30
1881.....	2 90	2 90	4 75	14 05	24 60
1882.....	2 90	3 00	4 75	14 15	24 80
1883.....	2 90	2 90	6 25	15 75	27 80
1884.....	2 80	2 30	6 20	14 20	25 50
1885.....	2 90	2 50	6 25	14 35	26 00
1886.....	2 90	2 50	6 25	13 15	24 80
1887.....	2 90	2 80	6 45	16 15	28 30
1888.....	2 90	2 80	6 45	16 15	28 30
1889.....	2 70	3 30	6 45	15 45	27 90
1890.....	2 70	2 80	8 35	15 45	29 30
1891.....	2 45	3 45	6 95	15 45	28 30
1892.....	2 75	3 85	7 45	13 45	27 50
1893.....	2 75	3 95	7 55	13 65	27 90
1894.....	2 75	4 05	7 65	13 65	28 10
1895.....	2 75	4 15	7 90	13 70	28 50
1896.....	2 84	4 16	8 50	13 70	29 20
1897.....	2 84	4 26	8 60	13 60	29 30

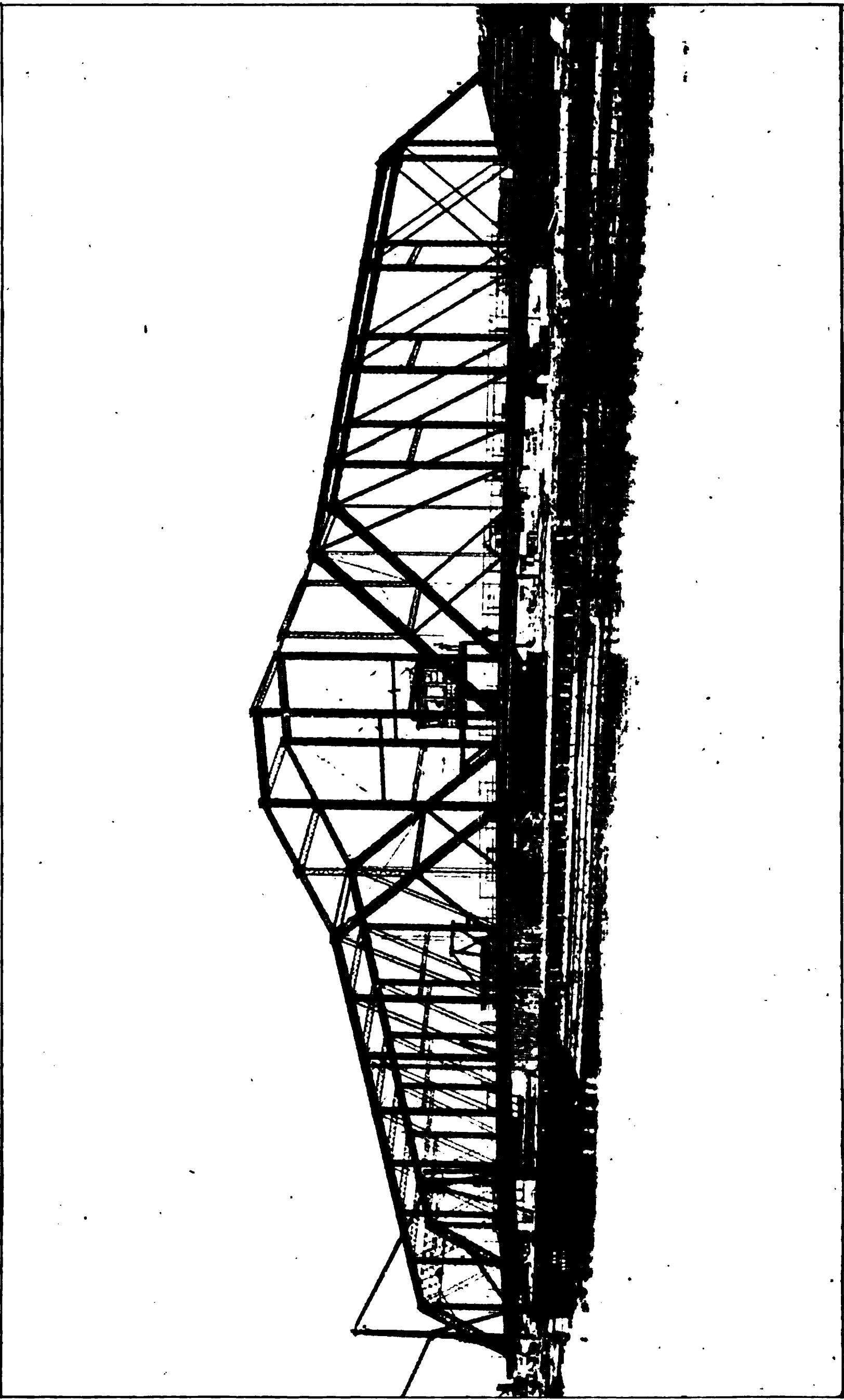
It will be noticed from the above that the total levy for 1898 is 29.30 as compared with 29.20 last year. While the county levy has increased \$.10 and the school levy \$.10 per \$1,000 of valuation the city levy has decreased \$.10, which kept the net increase down to \$.10. The total tax levy of \$29.30 is made up as follows, based on each \$1,000 of valuation: State purposes, \$2.84;

county purposes, \$4.26; school purposes, \$8.10; library purposes, \$.50, or a total of \$15.70, and for city purposes, \$13.60. The city levy of \$13.60 per \$1,000 of valuation is made up as follows: General, \$.85; bridge, \$.32; street, \$.89; police, \$1.58; sanitary, \$.28; fire, \$3.29; dredging, \$.10; lighting, \$1.55; street intersections, \$.44; interest, \$1.10; parks, \$1.00; paving, \$.40; general sinking fund, \$.85; viaduct sinking fund, \$.95. *The assertion that the City Administration has laid a heavier burden of taxes upon the people is therefore erroneous, misleading and unwarranted. If the improvements are carried on in the same business-like way as has characterized their conduct thus far, there is no reason why they should cause any increase in the tax rate, as we are paying off the city's obligations as they become due, and are issuing bonds for improvements only as the same progress.*

PUBLIC IMPROVEMENTS.

The era of needed public improvements for the City of Cleveland inaugurated by this administration in 1895 has been steadily advanced, the preceding year having been one of the most important in our city's history. The conduct of these improvements, being of such vital importance to the citizens at large and involving an expenditure of such a large amount of money, was recently submitted to a representative committee of tax payers for their investigation. This committee was organized at a meeting held on January 22, 1898, the following well-known business men being members: Messrs. Lea McBride, J. W. Conger, Henry W. S. Wood, A. A. Jackson, C. J. Manix, Milton Morton, Edward Wiebenson, T. W. Hill, John Meckes, L. N. Weber, Jacob Steinfeld, Wilson M. Day, Julius Feiss, C. W. Chase, Judge F. E. Dellenbaugh, Col. A. T. VanTassel, Hon. M. A. Foran, M. G. Watterson, Judge E. J. Blandin and N. A. Gilbert, Esq.

After some deliberation it was thought best to divide the examination into two parts and refer the question of river and lake front improvements and sewer improvements respectively to separate committees. This was done and after mature deliberation reports were presented, approving the expenditures made and ac-



THE NEW WILLOW STREET BRIDGE.
Showing Bridge as swung.

counting the results accomplished fully commensurate with the outlay of funds. Recommendations were then made for additional bond issues to continue these improvements and steps were forthwith taken in the General Assembly to obtain the necessary legislation. As the result of the joint efforts of the administration and these commissions, authority has been granted the city to issue bonds necessary for carrying on the work so that the coming season promises to be an exceptionally busy one in advancing these great enterprises and bringing most of them to completion. In the following statement an endeavor is made to outline what has been done up to date in reference to these improvements.

LAKE FRONT IMPROVEMENTS.

In recent years the demand for landing places on the Lake Front both east and west of the Cuyahoga river has been constantly increasing. In order to meet this demand and at the same time utilize what is considered the greatest natural advantage possessed by this city, the administration took this question up and worked out permanent plans which were approved by the River and Lake Front Commission and presented to the Council providing for the elaborate improvement of the eastern portion referred to. These plans comprised the building of a northern approach to the bridge across the railroad tracks at Erie street and the extension of a double pier out into the lake for a distance of about 1,300 feet ; the building of a bridge across the railroad tracks at the foot of Seneca street, fully half a mile west of Erie street and the construction of a pier also at this point; the connecting of the ends of these piers by pile and timber protections built parallel with the shore line, thus making a vast inclosure to be filled in with dirt and other refuse material hauled from various parts of the city in wagons across the bridges and dumped at the water's edge, the ultimate design being to some day have land which will be owned by the city extending from the present shore line northward to where will stand docks with slips between them sufficient for large vessels to lie alongside. Special progress has been made during the year in advancing these improvements at Erie street. The twenty-foot pier has been extended into the lake

along the easterly line of Erie street about 600 feet beyond the point where work was left off last year at a cost of \$17,531.96, and now ends about 1,144 feet from shore. The pile and timber protection has been completed from Erie street westerly to a point 731 feet west of Erie street; and is designed to protect the land being made at this point from being washed away and carried out into the harbor. This protection is a requirement of the government authorities. In the neighborhood of \$11,685.00 has been expended on the work, of which \$4,200 was applied to it last season. It is estimated that not less than 175,000 cubic yards of earth have been deposited in the lake at the foot of Erie street already, thus adding nearly four acres of valuable property to Lake View Park without cost to the city, except for labor in spreading the earth. The entire made land between the future docks and the present shore line will approximate $64\frac{1}{4}$ acres, and may eventually be made into a magnificent park or pleasure ground. It is the desire to continue the improvements at this point as rapidly as possible, and to this end special attention will be given to them during the coming season when an effort will be made to complete the extension of the pile protection to Seneca street and build two docks for the landing of excursion boats and other craft. The outlay of money required for this great undertaking, while considerable, will, nevertheless, be an investment which will more than pay the city in the great value of the land thus acquired for dockage purposes, to say nothing about the vast acreage which can be utilized for a Lake Front Park.

The building of docks at Willson avenue is another enterprise which it is hoped may be taken up during the coming year. The natural facilities at this point for both freight and passenger traffic are apparent at a glance and it would no doubt be very satisfactory if steps should be taken to supply the already pressing demand for access to boats by this route.

RIVER WIDENING.

The former cramped and narrow condition of the channel of the Cuyahoga river within the business district of the city is fast disappearing. With the aid of the last legislative appropriation the city has been enabled to prosecute extensive improvements

which have added greatly to the city's shipping facilities, and have placed Cleveland more nearly on a par with its maritime competitors.

The administration in accordance with its plans regularly adopted through the River and Lake Front Commission and approved by the Council, has proceeded to improve the channel section by section beginning at the river's mouth. It was early decided that it would be best to provide one large adequate outlet rather than continue the two smaller ones, this portion of the river being thronged and wholly overtaxed during the season of navigation by large ore and lumber vessels some of which pass through it on their way to the old river docks and others on their way to the lumber and ore docks farther up, and by the many passenger and merchant vessels and pleasure boats going to and fro on their daily trips. In carrying out this project the city has been aided by land conveyed to it by the Lake Shore & Michigan Southern Railway Company in connection with the railway bridge transaction at the old river bed. A great deal of time has been consumed and a large amount of money has been expended in the acquiring of other property at the mouth of the river desired for this improvement, but all the parcels except that owned by the Pennsylvania Company have been obtained by the city, and all land north of the Pennsylvania Company's section to the mouth of the river has been presented to the Government which is now ready to proceed through the Government Engineer, Col. Jared A. Smith, as soon as an opportunity will allow to extend the river mouth to twice its present width. The refusal of the Pennsylvania Company to make terms with the city for its parcel of land has resulted in much dissatisfaction and already we have started operations which are now pending in Washington, which may bring the matter to a successful issue. Extensive improvements in the old river bed are being made by the Lake Shore & Michigan Southern Railway Company, under an agreement with the city whereby the company is permitted to build a steel bridge and permanently maintain it instead of building a swing bridge as originally provided in an old ordinance passed by the Council. An opening has been made for this bridge over the channel to the lake and the bridge is now nearing completion. It will be 100 feet long, spanning a 60 foot channel for boats and

OUYAHOGA RIVER NORTH OF THE SUPERIOR STREET VIADUCT.
Extent of Widening Shown by New Deck and Remnant of Old on West Side of Channel.

a 40 foot passageway for public travel. Furthermore, the company is constructing a winding place for vessels 350 feet long and 150 feet wide with no expense to the city. The settlement of the controversy in regard to opening the old river bed into the lake by having a swing bridge near the lake nets the city \$377,000, and we believe the citizens quite generally approve the plan to have one wide and adequate mouth to the Cuyahoga river instead of two shallow and inadequate mouths. In addition to this the United States Government has already built one new dock on the east side of the mouth of the river and will build a new dock on the new west line, and will remove its harbor line some 450 feet farther up the river, thus saving the city over \$2,000.00 annually for dredging.

During the summer of 1897 the work of removing old docks and dredging the channel between Main street bridge and the Superior street viaduct was undertaken and completed, making the channel 86 feet wider for a distance of 400 feet, and an average of 60 feet wider for a distance of 480 feet. This means an average width of channel of 276 feet in comparison with 180 feet in the narrowest place as formerly. This section has been provided with new and improved docks and is now of sufficient width to allow several of the largest vessels to pass to and fro at one time in safety, thus relieving the congested condition in a portion of the channel which has been under public condemnation for many years, owing to its narrowness, and the danger of accident as well as the constant delay and annoyance to traffic.

In the upper river new docks have been built and the river widened and dredged between Seneca and Mahoning streets, making it an average of 142 feet wide instead of an average of 100 feet. The channel was also projected last year to a point farther up than ever before, enabling vessels to reach the docks of the various provision companies, an accomplishment appreciated by all concerned. The entire channel of the river from its mouth to the Jefferson street bridge on the south was dredged a foot deeper and from 30 per cent. to 50 per cent. wider in 1897 than ever before, greatly increasing its utility for the passage of vessels.

The work contemplated for next year comprises the completion of piers at and near the mouth of the river, land for which

SECTION OF WALWORTH SEWER.
View Showing Size of Structure.

is now practically acquired; the widening of the river from Center street under the Viaduct to the Old River Bed; the straightening of Collision Bend; the straightening of the channel at Jefferson street, and other minor improvements in the upper channel. With these accomplished no further improvements in the Cuyahoga river will probably be needed for many decades to come.

INTERCEPTING SEWER SYSTEM.

Marked progress has been made during the last year and a half in advancing work on the comprehensive intercepting sewer system recommended for the proper drainage of the city by the expert sanitary commission in 1895. This system is to consist of a large trunk sewer extending along the entire lake front from opposite limits of the city, and a central trunk sewer bisecting the city and connecting with the lake front interceptor, the outlet for the system being located east of the city and far removed from the source of the water supply. A portion of this great conduit known as the West End Interceptor was undertaken early last summer and completed from Alger street to Lake avenue, a distance of about a mile. This section is seven and a half feet in diameter.

It is proposed to complete the construction of the intercepting sewer on the West Side next season by continuing an additional section west from Alger street to Waverly avenue with a temporary outlet at Waverly avenue to Lake Erie. We are now ready to let the contract for the construction of the western terminus of the interceptor from the intersection of the Lake Shore & Michigan Southern Railway and Lake avenue, west on Lake avenue to the city limits. This interceptor will receive the output of a large number of lateral main sewers and will afford permanent relief to the overcrowded and inadequate sewer facilities for the entire section of the city west of Waverly avenue, as well as relieving a considerable section east of said street, in fact, all of that territory west of Pearl street and north of Lorain street, giving it permanent and adequate sewer privileges. In addition to the work contemplated on the West Side for the year 1898, the construction of a portion of the intercepting sewer east of the river will also be undertaken and completed.

Land for the terminal works several miles east of the city was acquired last winter, and the construction of the terminal facilities will be effected soon. The building of the interceptor from the city terminal point to Doan street will be pushed as rapidly as possible, and a lateral main interceptor will be constructed in Doan street from St. Clair street south, giving permanent relief to the entire eastern and southeastern sections of the city. Another section of the east interceptor which it is intended to build next season is that between Muirson and Water streets. This portion of the business section of the city has long been in need of relief, nearly all of the down-town sewers being wholly inadequate to the demands made upon them. By pushing to completion the sections of the intercepting sewer thus referred to a long stride will have been taken, and at the same time relief will be afforded, through the construction of lateral sewers, to those portions of the city which are now in greatest need of it.

WALWORTH SEWER.

While a portion of the money obtained from the bond issue authorized two years ago has been expended on the Western Interceptor, by far the greatest part has been devoted to the building of the Walworth street sewer. This sewer is to be three miles in length and for purposes of convenience in building has been divided into four sections, three of which are now under contract and partially completed. Its diameter will vary from 8 to 16½ feet, the sewer being designed to take storm water and sewage from a large part of the West and South Sides, or an area nearly one-sixth of the entire city. The foundation and a portion of the side walls are of concrete and the remaining parts of the sewer of brick. It will be interesting to our citizens generally to inspect this sewer and gain a correct idea of the benefit it will be to this thickly populated section of the city. The three sections will be finished, it is confidently expected, by the end of 1898. The cost of the entire improvement was originally estimated at nearly \$900,000.00, but bids have been much less and it is now estimated to cost about \$730,000.00. Owing to the magnitude of this sewer and the great volume of water that it will at times carry, the specifications call for better and different

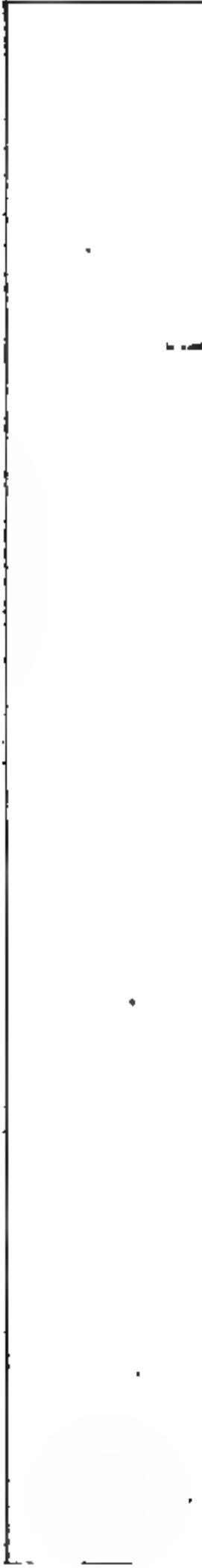
material and workmanship than has ever before been required on sewer work in this city. A testing laboratory has been opened in one of the rooms connected with the office of the City Engineer for testing all materials used in the work.

DIVERSION OF GIDDINGS BROOK.

One of the most troublesome problems with which the present administration has had to deal has been the affording of relief to the residence and business territory contiguous to Giddings Brook. Every spring and fall this stream has frequently overflowed its banks, flooding the neighboring cellars and highways, and menacing the public health in that section of the city as well as doing great damage to property. Various plans for doing away with this difficulty have been considered with the result that the Engineering Department has decided that the brook should be diverted into Doan Brook. In order to provide for the necessary funds, a bill was recently drafted and presented in the Legislature and passed authorizing a bond issue of \$50,000 for this purpose. It will be the aim of the administration to undertake and complete the work the present season, thus affording needed relief to the Cedar avenue, Woodland avenue, Euclid avenue, Superior street and St. Clair street sewers which are now taxed beyond their capacity. The cost of the improvement will be small compared with the increased value of the property affected as well as the general benefit to a valuable section of our city.

THE NEW WATER TUNNEL.

Authority was granted the city by the last legislature to build a new water tunnel in accordance with the recommendation of the expert sanitary commission for providing a purer supply and giving insurance against a possible water famine. A site of seven acres for a new pumping station was obtained at the foot of Coe street on the East Side, and bids were received for the tunnel to extend five miles into the Lake from this point. Work was commenced on October 10, 1896, and has been advanced at an average rate of ten feet per day from a shaft over 100 feet deep near the water's edge. In order to facilitate its construction a tem-



UPPER SECTION OF CUYAHOGA RIVER.

View of a Busy Manufacturing and Shipping Center.

(The Easterly Dock Has Been Set Back Thirty-Five Feet Between Boness Street and Mahoning Street.)

porary wooden crib filled with stone was sunk on May 27, 1897, at a distance of 11,600 feet from shore, and a similar crib likewise located on September 8, 1897. The contract for a steel inlet crib, which is to form the terminal facilities of the tunnel, was let in December and the crib is now nearing completion. The tunnel is 9 feet in diameter and work therein is conducted under air pressure. It is estimated by the contractor that a year and a half or two years at the farthest will be required for the completion of the tunnel. A portion of the expense of this improvement is being supplied from earnings of the Water Works Department, and it will not be necessary to ask for any additional legislation in its behalf. The building of the tunnel is of great importance to the health of our citizens, and they would be well repaid for a visit to it, the experience of traveling far out into the lake being at the same time novel and interesting.

GARBAGE DISPOSAL.

A great deal of attention has been given in recent years to the provision of a sanitary means of disposing of the garbage and refuse of Cleveland. The consideration of this problem has been in the hands of a committee of citizens, consisting of Mr. J. G. W. Cowles, Mr. J. W. Conger, Dr. W. H. Humiston, Mr. Kaufman Hays, Mr. Henry W. S. Wood, and Councilmen Palmer, Stinchcomb and McKenney.

A tour of inspection was made to other cities early in 1897 by a special committee which presented an exhaustive report on the result of its observations. Bonds were issued under authority granted by the last Legislature to the amount of \$100,000, and bids were three times received. On the first and second occasions, all bids were rejected, but on the third it was decided that the bid of The Buckeye Refuse and Destruction Company was as near satisfactory as could be obtained, and this Company will undertake to carry out a five years' contract with the city. Although the matter was handled very carefully some members of this Commission, namely Mr. Cowles and the Mayor, were not entirely satisfied to permit the letting under the last bid, but it will doubtless work all right, as the city has the option of owning the plant at the expiration of the contract in 1903. Although

WILSON AVENUE HIGH LEVEL VIADUCT AT NICKEL PLATE RAILWAY.
Eleven Hundred Feet Long. Total Cost \$106,000, of Which the Cleveland Electric Railway Company Paid \$10,000, the Nickel Plate Railway Company \$80,000,
and the City \$8,000.

there has been little mention of the Company's intentions regarding their contract, assurances have been given the city that preparations are under way for beginning active operations, and that the collection, removal and disposition of garbage under the contract will be started before the opening of summer.

WILLSON AVENUE VIADUCT AND OTHER BRIDGES.

It is with considerable satisfaction that the Administration is able to announce the completion of the viaduct over the Nickle Plate tracks at Willson avenue, which the city has been attempting to build for twenty years. This viaduct is a steel and iron structure 1,100 feet long, extending from Francis to Julia street, and spanning a valley formerly traversed by thousands of pedestrians and teams each day. The Nickle Plate Railway Company was induced to construct the greater portion of this bridge, at a cost of \$90,000. The Cleveland Electric Railway Company also contributed \$10,000 towards the project, this company desiring to cross the bridge with its tracks.

Some delay in the completion of the bridge was necessitated by the failure of the contracting companies to obtain structural material, but this was quickly forgotten in the general feeling of happiness, when the bridge was formally opened for public travel on March 3, 1898.

The Willow street bridge, crossing the old river bed a short distance from its opening into the Cuyahoga river and connecting what is known as Whisky Island with the mainland, was also completed during the year. The new bridge replaced a temporary wooden structure built in 1889 and intended for a few years' use. The old bridge rested on a center pier near the middle of the channel and was only 6½ feet above the surface of the water. The new bridge rests on a pier located on the north side of the channel, leaving a clear opening of 138 feet for the passage of vessels as against 70 feet as formerly. It has a swing span of 295 feet and is operated by two thirty-five horse power motors. Its cost was \$67,000.00 with \$26,100 added for the purchase of land.

During the coming season it is intended to undertake the construction of the Willett street viaduct; the Martin Praha

street bridge; the Center street bridge; the Warner Road arch and culvert; and the reconstruction and repair of other bridges under the legislative appropriation of \$250,000.00 granted at this session of the General Assembly.

NEW CITY HALL.

After many years of waiting and almost despairing our citizens can soon point, we confidently expect, to a new and modern City Hall. No city improvement is more urgently needed than this. The present rented quarters are a disgrace, being illy fitted for the use to which they are put, and at the same time a source of great expense to the city. When it is understood that the plan adopted for the erection of the new building will relieve the taxpayers of any burden on this account the outlook is doubly gratifying.

Two years ago the people decided by vote to locate a City Hall on the northeast section of the Public Square, but the matter was almost immediately taken into Court by injunction suits, and finally the repeal of all legislation on the subject was obtained by the opponents of this site. Since that time negotiations have been in progress for the securing of another suitable location, and there is reason to believe that such site may be obtained without much difficulty. Already the arrangements are made under existing contracts and ordinances by which bonds issued for City Hall purposes may be cared for by the application of the receipts from the Gas Companies to the city.

In order that the entire matter might be carefully considered and discussed, a Committee on City Hall was recently appointed by the Mayor consisting of well known business men who held various meetings for deliberation. This committee consisted of Messrs, J. W. Conger, Jacob Perkins, Wilson M. Day, V. C. Taylor, T. W. Hill, W. J. Gleason, Henry W. S. Wood and Julius Feiss. The committee on February 28, 1898, unanimously adopted a report setting forth that the present rented quarters were wholly unfit to meet the demands of today, and that the unsafe condition of the public records demanded that immediate steps be taken to secure them against loss by fire

or other cause. It was also shown that the city had paid out for rents, taxes and repairs from 1874 to the present time over \$1,050,000,

In regard to the ways and means for obtaining a City Hall the committee advised that the receipts from the Gas Companies be applied to this purpose, stating that these receipts (provided equally as good a contract as the existing one could be made with the Company at the time the present contract expires in 1902) would be amply sufficient to pay interest and principal on a bond issue of \$1,500,000 if we should at the present time issue that amount bearing 4 per cent. interest and payable in 20 years. A bill was drawn in accordance with these conclusions, and was introduced in the General Assembly and passed on April 6, 1898. It provides for the appointment of a non-partisan commission, which shall have immediate control of the plans. Now that the way has been opened for supplying the city with a suitable municipal building, action should be taken at once to complete the steps necessary for the commencement of work, and every effort will be made to do this as rapidly as possible.

This is an improvement in which all classes of citizens feel a justifiable pride, the present City Hall having been an eye-sore for many years. The scheme of obtaining the funds will, I believe, also meet with general approval.

THE DEPARTMENTS.

Great care has been exercised by the heads of departments during the last year to cut down the city's running expenses and to increase the efficiency in all branches of the public service. Closer attention has been given by the Directors to these matters than ever before, as the result of which all of the departments are enabled to make an exceptional showing. It is due the members of the Board of Control that I should express my appreciation for their faithful application to duty and the interest they have manifested in the general conduct of administrative affairs. So far as I know matters have proceeded in perfect harmony, and still better results may be anticipated for the coming year.

The accomplishments in each of the departments are briefly outlined in the following review, based upon their annual statements.

DEPARTMENT OF LAW.

An unusually large amount of litigation has occupied the attention of the Law Department during the year. The volume of the city's legal business is constantly increasing, requiring the limit of effort on the part of the city's attorneys. The number of papers prepared and approved by the Department for the year ending December 31, 1897, was 1,937 as against 1,429 for the year previous. The number of cases disposed of during the year was 175, and the number of cases pending in the various courts January 1st, 1896, was 157 as against 148 for January 1st, 1897. The record of the Department in handling damage suits for the interest of the city was fully sustained, the amount received by claimants being only \$5,363, while the amount sought to be recovered was \$222,938.84,

DEPARTMENT OF PUBLIC WORKS.

The past year has been a very busy one in the Department of Public Works. Besides the supervising and managing of public improvements, comprising those on the lake front, river widening, the intercepting sewer, the Walworth sewer, the new water tunnel, the Willson avenue viaduct, the Willow street bridge and other undertakings heretofore referred to, this department has carried on a vast amount of general city work such as paving, sewer building, laying water pipe, street cleaning, etc. The most notable of all these accomplishments, however, has been the general reduction of contract prices, saving thousands of dollars to the tax payers. One year ago it was thought that the reduction then announced could hardly be improved upon, but it is a pleasure to again call the attention of citizens to still better tables of comparisons for the year just closed. The prices now being paid for various kinds of work and material are greatly reduced over those paid a few years ago, and are in keeping with the policy announced at the outset of this administration that special attention would be paid to this feature of the city's expenditures. In order that a proper idea of these reductions may be gained, the comparisons which I am about to give have been made to cover the three years of the present administration as compared

with the three years preceding it. Although the present administration came into power in 1895 some of the contracts under which it operated for that year were made under the preceding administration. One feature of public work in which the prices have been noticeably lessened is that of cleaning paved streets. Formerly the contract was let at so much per mile instead of per square of 10,000 square feet as at present. The comparisons have been figured on a basis of 17 squares to the mile, this being as near as it is possible for the engineers to get at the average squares to the mile of streets. Following is a statement showing the prices paid per square of 10,000 square feet for cleaning paved streets for the three years preceding this administration and the three years covered by this administration.

CLEANING PAVED STREETS.

Average price of wet cleaning per square for three years under contracts made by previous administrations (First District) \$3.34; (Second District) \$3.10; (Third District) \$2.88.

Average price of wet cleaning per square for three years under contracts made by present administration (First District) \$1.15; (Second District) \$1.24; (Third District) \$1.11.

Average price of sweeping per square for three years under contracts made by previous administrations (First District) \$1.95; (Second District) \$1.88; (Third District) \$1.87.

Average price of sweeping per square for three years under contracts made by present administration (First District) \$1.08; (Second District) \$1.04; (Third District) \$1.07.

General average of price per square for cleaning and sweeping paved streets exclusive of gutter cleaning for three years under contracts made by former administrations, all Districts, \$2.50 per square.

General average of price per square for cleaning and sweeping paved streets, exclusive of gutter cleaning for three years covered by contracts made by present Administration, all districts, \$1.20,

Price of gutter cleaning per square for the year 1895 (no contracts were made for 1893 and 1894) under contract made by previous Administration, (First District) \$1.48; (Second District) \$1.00; (Third District) \$1.00.

— FROM DOWN THROUGH THE VALLEY OF WALWORTH RUN.

Average price of gutter cleaning per square for three years under contracts made by present Administration, (First District) \$0.53; (Second District) \$0.61; (Third District) \$0.64.

The contract prices for 1898 are astonishingly low, being as follows: First District—Wet cleaning, \$0.20 per square; sweeping, \$1.00 per square; gutter cleaning, \$0.10 per square. Second District—Wet cleaning, \$0.49 per square; sweeping, \$0.87½ per square; gutter cleaning, \$0.35 per square. Third District—Wet cleaning, \$0.59; sweeping, \$0.95; gutter cleaning, \$0.42.

CLEANING CATCH BASINS.

Another department of city work in which a great saving has been rendered the public by the reduction of contract prices is that of cleaning catch basins, the prices for the last six years being shown in the following table:

	1893	1894	1895	1896	1897	1898
For each catch basin cleaned.....	\$0.81	\$0.79	\$0.70	\$0.60	\$0.49	\$0.47

The average cost for each catch basin cleaned for the three years under contracts made by former administrations was \$0.77, while that for the three years under the present administration was only \$0.52.

CAST IRON LAMP POSTS.

The following comparisons are given with reference to the cost of the cast iron lamp posts purchased by the city:

	1893	1894	1895	1896	1897	1898
Each.....	\$5.70	\$5.92	\$5.95	\$5.45	\$5.02	\$4.85

Average cost for three years under contracts made by former administrations, \$5.86.

Average cost for three years under contracts made by present administration, \$5.10.

ELECTRIC STREET LIGHTING.

The contract for electric street lighting was formerly made for only 2,300 hours per year, whereas the present Administration has operated under a schedule of illumination all night and every night of 3,760 hours. Under the former schedule the cost aver-

aged \$88.67, while under the present schedule for the three years it is given as follows, particular attention being called to the reduction of \$1.56 per lamp for the year 1898, as compared with the preceding years:

	1896	1897	1898
All night and every night, 3,760 hours,	\$94 80	\$94 80	\$93 24

VAPOR STREET LIGHTING.

The cost of vapor street lighting has also been greatly lessened, the price for 1897 having been the lowest in the city's history. How these reductions have been gradually made is shown in the following table:

1894	1895	1896	1897
\$18 25	\$18 25	\$17 95	\$13 98

CARE OF GAS STREET LAMPS.

In the care of gas street lamps there has been a steady hammering down of prices, as is shown by the following schedule for the years named:

	1893	1894	1895	1896	1897	1898
On East Side of the river	\$4 36	\$4 49	\$3 41	\$4 08	\$3 90	\$3 70
On West Side of the river	4 36	4 49	4 13	4 15	3 97	3 75

Average cost of care of gas street lamps on east side of the river for three years under contracts made by former Administrations, \$4.08.

Average cost for care of gas street lamps on east side of the river for three years under contracts made by present Administration, \$3.89.

Average cost for care of gas street lamps on west side of the river for three years under contracts made by former Administrations, \$4.33.

Average cost for care of gas street lamps on west side of the river for three years under contracts made by present Administration, \$3.95.

CAST IRON WATER PIPE.

An item of great expense to the city is that of cast iron water pipe. During 1894 and 1895 low prices were obtained on a quantity of pipe purchased at second hand from a Chicago company. Prior to the year of 1893 the price was almost \$7 per ton higher than that for the present year. The average cost of the three years under this administration, however, is \$18.77 per ton for all new pipe as compared with an average of \$19.69 for the years 1893, 1894 and 1895, the cost per year being as follows:

1893	1894	1895	1896	1897	1898
\$23 10	\$18 13	\$17 85	\$19 90	\$19 70	\$16 73

MEDINA DRESSED BLOCK STONE PAVING.

A notable reduction in the cost of stone paving was made last year, the price having been cut down to 25.20 cents per square foot making the average for the last two years 26.25 cents as compared with 29.64 cents for the preceding years, the cost per year being as follows:

	1894	1895	1896	1897
Average price per square foot. . . .	28.50 cts.	30.79 cts.	28.71 cts.	25.20 cts.

Comparisons of the amount of work done by the department during the last year are equally interesting. The administration although handicapped by a discouraging lack of funds has, nevertheless, endeavored to improve the appearance of our streets by giving special attention to street cleaning. As a result of this we are able to announce that the department during 1897 cleaned 2,107.4 miles of pavement, making the total amount cleaned for the three years covered by this administration 3,823.4 miles, as compared with 1,879.5 for the three years previous. Still better results are expected for this year under the greatly reduced prices, it being possible under the new contracts to clean the streets in the down-town district much oftener than under former contracts, and also to increase the number of cleanings for the outlying districts. This city is still parsimonious with funds for street cleaning purposes, the amount appropriated annually being

very small in comparison with that for other cities of its size and importance. It is to be hoped that a very liberal view of this matter will be taken by the incoming Council as clean streets are essential to the proper appearance of our municipality. Not only this but to a large class of our citizens who use bicycles, cleaned streets are regarded as a positive necessity, as well as the proper sprinkling of the same, provision for which has been made through the passage of a law by the present session of the General Assembly. The street division cleaned and rounded up 842.6 miles of dirt streets for the year 1897, this being fully double the amount cleaned and rounded up annually during former administrations. The amount of crosswalks laid was 45,231 feet which was an increase almost as great as that of cleaning and rounding up streets. Thirty-nine streets were paved or repaved during the year, making a gain of 8.73 miles and plans were laid for paving at least fifteen miles of streets in 1898, legislation for which is all practically completed.

An almost unprecedented amount of sewer building was done in 1897, the amount expended being \$402,454.79, and including work on 79 sewers. This expenditure was 300 per cent. greater than in 1895, plans for which were laid under the preceding administration, and 200 per cent. greater than in 1894, the last year of the former administration. The character of the sewers and quality of workmanship have been better than ever before. A large number of the sewers built are located on the West Side, the administration desiring to fulfill the pledges made to West Cleveland when that village was annexed.

The management of the Water Works Department has been unusually successful, the net profits of the division being upwards of \$365,000. Forty miles of water pipe were laid, making the total for the three years of this administration 92½ miles, as compared with 66½ miles for the three years of previous administrations. There was an addition of 232 fire hydrants; a net gain of 1,818 water connections; a net gain of 99 water meters set; a total average of 48,397,837 gallons of water pumped, showing an average increase in consumption of 2,749,496 gallons per day over the preceding year, or an increase of 4.74 per cent. The cost of fuel for pumping a given quantity of water was considerably lessened,

the average cost of coal being \$2.18 for pumping 1,000,000 gallons of water, as against \$2.40 in 1896, being a decrease of 11 per cent.

A new engine and boiler house at the Division street pumping station have been completed and contracts awarded for six water tube boilers which are now under construction. Five tubular boilers with stokers have been placed in the station during the year, and a new 20,000,000-gallon pumping engine is now being constructed in position.

The policy of the administration in extending electric lights wherever possible has been continued by this Department, the number of arc lights in use now being 1,000 as compared with 251 for 1895 when the present administration took hold. We are now happy to say that for the first time in the city's history substantial signs are placed on every street intersection, this being a practical and well-appreciated improvement.

DEPARTMENT OF POLICE.

The total expenditures of the Police Department during 1897 was \$397,922.55, as against \$402,161.11 for the previous year. This was the case notwithstanding an increase in the force of a Captain, two Lieutenants and 20 additional patrolmen by authority of the Council on January 5, 1897. This indicates the careful and economical management of the Department. The Department made 14,481 arrests in 1897, as compared with 13,491 in 1896, which indicates its growing efficiency and strict attention to duty. The total number of arrests made during the three years of the present Administration in bringing offenders against the law to justice has been 38,978, as compared with 29,836 for the three preceding years, or an increase of 9,142, which is about equal to the total number of arrests made in either 1893 or 1894. Rigid discipline has been maintained in the Department, and special efforts put forth by the police during the year to enforce all laws. Unusual attention has been paid to the lessening of the vice of immorality, the number of arrests on this charge having been increased nearly 100 per cent. The custom of holding an annual inspection of the force was introduced last summer

with such satisfactory results that it has been decided to hold another inspection on May 28th, when the Fire Department will also appear with the police.

I concur in the recommendation of Director Abbott that the Police Patrol System should be extended to the third and fourth districts, and that two additional stations should be erected and equipped; and also that there should be a considerable addition to the present force of patrolmen, so that the city may compare favorably with other cities of its size, and that health and property may be better protected.

HEALTH DIVISION.

According to statistics prepared in the Health Office the death rate of our city has been reduced from 14.71 per 1,000 of population for 1896 to 14.30 per 1,000 of population for 1897. This is certainly very gratifying. The patronage of the public bath houses has shown a marked increase for 1897, it being estimated that fully 34,000 persons availed themselves of the privileges at Edgewater bath house, and 20,000 more at the Kirtland street bath house. The free public baths operated by the city should be increased and the facilities extended as rapidly as funds will allow, these resorts being both popular and beneficial to large numbers of our citizens. An effort was made during the year by this Department to abate the smoke nuisance, but the ordinance under which the city was operating was declared illegal in the Police Court, and the city is thus handicapped in proceeding with this reform.

FIRE DEPARTMENT.

The ability of the Cleveland Fire Department to cope with great conflagrations has been noticeably demonstrated on several occasions recently, much to the credit of the Department and its management. In spite of a number of large fires in the business section of the city the fire loss for 1897 was kept down to \$573,054.36 as against \$460,842.55 for 1896, and \$515,155.51 for 1895. The discipline and control of the force is excellent, and it is to be doubted whether any American city can show as efficient a Department considering the number of men employed.

In December the Director of Fire sent to the Council a communication containing an estimate of the cost of a new and improved fire alarm system, placing the total expense of such system at \$40,000. Unquestionably this improvement should be made at the earliest possible moment funds can be provided for it. Also a pipe line should be extended to Euclid avenue east of the Public Square in order that the fire boats may be used for that locality, the present pipes extending only to Ontario street. A new engine house of modern design was completed on Kinsman street during 1897 and was properly dedicated. It is the desire of the Department to erect this year a new engine house at the corner of Croton and Humboldt streets, and to replace the ill-fitted house at the corner of Abbey and Lorain streets. I would recommend that the fire limits be extended so as to increase the territory in keeping with the growth of the city.

The report of the City Electrician shows that the work of placing wires under ground goes steadily on. Prior to 1895, there were practically no poles removed and very little aerial wire. There has been removed from the streets by this administration during the last three years 500 poles and 5,832,560 feet of aerial wire, 73,618 feet of subway has been built containing 609,848 feet of ducts. The amount of cable placed under ground during the same time was 241,943 feet, containing 34,429,791 feet of wire or 6,520 miles, enough to reach almost twice the distance from New York to London. During the last year the amount of aerial wire removed was 1,087,780 feet and the amount of cable placed under ground was 117,759 feet. The number of poles removed was 101. Few aerial wires or poles are now left in the territory included in or contiguous to the business district of the city.

The report of the Building Inspector shows a healthy condition of that office. The fees collected in 1897 amounted to \$5,854.30, the expenditures \$6,322.50; while in 1896 the fees amounted to \$5,469.80, and the expenditures \$6,430.37, the excess of expenditures over fees in 1897 being only \$468.20 as compared with \$960.57 for the previous year. The number of permits issued in 1897 was 3,504 as against 3,338 in 1896. This office is now substantially on a self-supporting basis, while formerly considerable appropriations were needed each year to sustain it.

DEPARTMENT OF ACCOUNTS.

This department has maintained its excellent reputation in the careful and expeditious manner in which it has taken care of the municipal records and transacted the city's business the past year. In the disbursing division, 14,870 orders for goods for the various departments were certified and forwarded, bills for same examined and approved, and vouchers in payment to the number of 13,715, amounting to \$6,877,277.26 duly entered and disbursing warrants issued therefor; 3,286 receiving warrants were issued accounting for the receipt of \$7,203,256.54; 299 contracts certified; 1,478 resolutions and ordinances certified to the City Council; 4,552 reports from the departments to the Auditor were checked and approved; and 1,252 reports of the condition of the various funds were issued to the Council and departments.

The tax division prepared 66 estimated assessments for street pavings and made up tax lists for 404 street improvements on which the tax assessed amounted to \$619,692.54. This work occupies about 1,100 pages of duplicate, and involved the working up of over 27,000 pieces of property. One hundred and forty-three old street improvement funds were closed off the city's books, on which the surplus tax amounting to \$90,961.52 was refunded to the property owners.

The old city records from 1835 to 1891, have, during the past year, been taken from the old boxes and barrels in the attic and basement of the City Hall and have been carefully arranged, filed and indexed, in a room set apart for that purpose, called the Record Room, and are now in such condition that any paper or record can be found in a moment. Heretofore it has been a practical impossibility to obtain any information contained in these records except after long search in the dust and dirt of years' accumulation.

The old dockets and records of the Justices of the Peace have also been arranged in like manner in the same room. These records and papers are invaluable, being, as they are, the only documentary evidence of the city's disbursements and transactions for a long period of years. Provisions should be made at once for fire-proof vault accommodation for them. Scarcely a week passes but some of these records are needed to prove the

TERMINAL FACILITIES OF NEW WATER WORKS TUNNEL.
Foot of Oak Street, East Side.

city's case in court, and a fire in the City Hall would sweep them all out of existence and prove of inestimable and irreparable loss to the city.

The books of the Auditor's office were closed for the year January 3, 1898, with all the city's bills paid in full, and a complete report of the year's transactions, consisting of 146 tables and covering three hundred pages of printed matter was ready January 21, 1898.

DEPARTMENT OF CHARITIES AND CORRECTION.

The management of the Department of Charities and Correction has been able and satisfactory. Its excellent financial standing has been sustained, there being left in the hands of the City Treasurer to the credit of the department at the close of the year \$51,605.51. This is so notwithstanding the fact that there is due the Division of Infirmary for the care of indigent insane patients nearly \$70,000.00 for the past quarter of 1896 and all of 1897, the Judge of the Probate Court having refused to sign the vouchers authorizing the payment of such claims, and also despite the fact that a special tax of \$6,190.50 was placed against the Infirmary property for the paving of Scranton avenue, and that an additional expenditure of \$5,200 was entailed for the repair of the breakage in the old brick culvert of Kingsbury Run.

The House of Correction, under the efficient Superintendent, Mr. Dorn, is still self-sustaining, notwithstanding the decreased population and consequent lessening of income, and the increased cost of food supplies. This institution while it is not intended as a profit making affair, nevertheless is enabled from its earnings to keep its buildings and fixtures in first-class repair and extend the facilities for the transaction of business. A number of improvements of a sanitary nature have been made at the institution during the past year. The roof of the main building has been placed in splendid repair and a large amount of new and improved machinery has been added. I concur in the movement placed under way by the director to provide a large dining room for the prisoners rather than to compel them to eat their meals in the sleeping rooms.

NEW FIFTH PERCINCT POLICE STATION, EAST MADISON AVENUE, NEAR WOODLAND AVENUE.
No "Extras," and the First Police Station Built for Less Than the Appropriation.

At the City Infirmary and Hospital the average daily population was 753, the largest in the history of this institution. The entire per capita cost of maintenance and attendance for the year was \$115.12 or a decrease of \$1.79 per capita over the year 1896. The building, furniture and fixtures of the institution were overhauled and placed in first-class condition, the interior of the Infirmary and Hospital being repainted throughout.

During last summer, necessary legislation was passed in the Council and contracts were let for the construction of the Children's Hospital which will be ready for occupancy by July 1st, 1898. When completed this building will accommodate 100 children and will be of great benefit to our city as well as a noble addition to our charities.

Strict economy has been exercised in the management of the Out-Door Relief Department by Superintendent Ricksecker. Rigid inspection into the condition of applicants for relief have been insisted upon, and where possible the heads of families have been required to work for their supplies. One result of this was to rid the books of a number of indolent and worthless characters who were unwilling to labor for what they received.

Through the efforts of Director Akers arrangements have been made for establishing a clearing house to which all the organizations dispensing charity will report the cases and thus prevent the duplication of relief. Over 150 societies and churches have signified their willingness to co-operate in this movement, and it is expected that the clearing house will be in operation very shortly.

In August last I sent to your Honorable Body a communication advocating the establishment of an institution for the care of incorrigible youth. There is no doubt that such an institution as was then recommended should be provided. It has been suggested that the building be erected upon the land purchased by the city for the Lorain street cemetery which has been changed. I sincerely hope that steps will be taken during this year to bring the matter to a culmination, deeming it essential to the proper management of juvenile incorrigibles in our city.

A large amount of work has been done during the last few months in beautifying the burial ground which will be known as West Park Cemetery. This property is admirably adapted for

the purpose to which it is to be applied and when once improved and opened there can be no question but that the West Side will possess one of the most beautiful and picturesque cemeteries to be found anywhere in the country. This cemetery will be formally opened during the coming summer.



In concluding this communication I desire to say that it will be the aim of the Administration to push as rapidly and as wisely as possible the big improvements now under way for the benefit of the city, and to obtain the best results possible from each department of the public service. In this undertaking we will expect the co-operation of the Council. Let our municipal interests always be uppermost in our minds, and whether it be individual or corporate interests that come in contact with these, let the municipal rights be jealously protected, and that which belongs to the people be faithfully preserved. If your Honorable Body will plan carefully and well, great things can be accomplished for the good of the city next year. Cleveland is awakening out of the lethargy in which it has rested for a quarter of a century and is now advancing with rapid strides. Let us take up the questions which pertain to our municipal government and commercial prosperity in a thoughtful, business-like and earnest way, and by united work and co-operation push forward to still higher achievements.

Respectfully submitted,

Robert E. McKisson

Mayor.

REPORT
OF THE
CITY CLERK.

Report of the City Clerk.

January 15, 1898.

To the Council:

I submit herewith tables showing in condensed form the operations of the Legislative Department of the city for the year 1897. Under the operations of the Council the necessary ways and means have been granted the executive officers of the city for the carrying on of the tremendous improvements in our sewer systems, especially marked in the great Walworth Run interceptor, now well under way. The money provided for widening of the Cuyahoga River has resulted in valuable increase in our dock front and navigation facilities. Work is now contemplated for extensive improvements on the lake front which your honorable body will likely be called upon during the present year to consider. Improvements at Erie street have been extensive, and the recent additional appropriation of \$30,000.00 by the Council will undoubtedly complete the main dock and pier at that point. The contentions during the past year over a rational and businesslike settlement of the street railway question is still in abeyance, the matter being referred to the Chamber of Commerce, which body has practically promised to submit for your consideration an ordinance embodying provisions alike just to the corporations and the city.

The same unsatisfactory condition in regard to city licenses exists, the Executive Department not having enforced the license bill passed by the Legislature two years ago. Until this license

law is enforced, or some similar measure enacted and put in operation, unsatisfactory results may be expected. In the two years since the passage of the license bill the city would have received probably \$300,000 instead of \$60,000 had the measure been made operative by the Executive Department. It is hoped that a license bill will be enacted this winter and enforced immediately.

The following tables briefly enumerate the transactions of the Legislative Department.

Respectfully submitted,

HOWARD H. BURGESS,

City Clerk.

PROCEEDINGS OF COUNCIL.

Number of meetings held:

Council regular meetings.....	52
Council recess meetings.....	2
Total number.....	54

Amount of business transacted:

Petitions.....	277
Claims.....	31
Communications.....	1,208
Ordinances introduced	640
Resolutions.....	
Streets.....	2,887
Lighting	651
Miscellaneous.....	684
Miscellaneous papers.....	284
Total	6,662

Ordinances passed, 451.

CLAIMS FOR DAMAGES FOR STREET IMPROVEMENTS.

NAME.	NO. OF CLAIMS.	AMOUNTS.
Ashley alley	1	\$ 533 50
Berry street.....	1	400 00
Garretson avenue.....	1	300 00
Mayfield road.	1	2,750 00
Minerva street.....	1	800 00
Prospect street.....	2	675 00
Sherwood street.....	1	300 00
Woodland Hills avenue.....	7	1,800 00
Ware street.....	1	1,500 00
Willson avenue (fill).....	2	7,000 00
Warner road.....	1	5,000 00
Total		\$21,058 50

RECEIPTS FROM LICENSES, 1897.

Licenses have been issued from this office during the year 1897, as follows :

	No.	Amount.
Building.....	3506	\$ 5,891 74
Engineers'.....	1893	559 00
Peddlers'.....	1382	12,403 00
Gardeners'.....	243	2,430 00
Exhibition.....	66	999 00
Express. etc.....	277	831 00
Cabs, etc.....	2	10 00
Pawnbrokers'.....	20	1,000 00
Ferries.....	2	20 00
Street cars.....	781	7,810 00
Miscellaneous... ..	92	192 00
Total	8264	\$32,145 74

The above amount has been duly deposited in the City Treasury to the credit of the proper fund as follows, the receipts of the Treasurer being herewith attached :

To the credit of the Fire Fund	\$ 5,891 74
To the credit of the General Fund	3,524 00
To the credit of the Market Fund.....	14,833 00
To the credit of the Street Fund	7,810 00
To the credit of the Sanitary Fund.. ..	87 00
Total deposits.....	\$32,145 74

AMOUNTS PAID FOR OFFICIAL ADVERTISING.

Showing each department and each newspaper.

	Executive.	Accounts.	Public Works.	Police.	Charities.	Legislation.	Fire.	Elections.	Parks.	Totals.
Leader.....	\$ 99 18	\$26 59	\$1,949 47	\$ 34 93	\$29 78	\$5,929 81	\$13 63	\$2 60	\$172 69	\$ 8,258 68
Plain Dealer...	38 75	.....	638 88	43 37	12 99	4 12	18 74	2 62	230 87	990 34
World	45 28	.....	34 40	.....	.....	.....	.....	.....	.....	79 68
Press .....	.....	.....	46 50	.....	.....	.....	.....	.....	.....	46 50
Volnost .....	.....	.....	44 50	63 75	.....	.....	.....	.....	.....	108 25
Recorder.....	75 65	.....	436 28	.....	32 61	.....	.....	.....	.....	544 54
Waechter & } Anzeiger... }	.....	.....	26 35	.....	.....	.....	.....	.....	.....	26 35
Polonia.....	.....	.....	25 00	.....	.....	.....	.....	.....	.....	25 00
Engineering } News..... }	.....	.....	35 40	.....	.....	.....	.....	.....	5 80	41 20
Total.....	\$258 86	\$26 59	\$3,236 78	\$142 05	\$75 38	\$5,933 93	\$32 37	\$5 22	\$409 36	\$10,120 54

REPORT OF THE CITY CLERK.

SHOWING PAYMENTS TO NEWSPAPERS BY MONTHS.

1897.	Leader.	Plain Dealer.	World.	Press.	Recorder.	Engineering News.	Volunt.	Voice.	German Cond. Newspaper Co.	Die Deutsche Press.	Post & Presse.	Polonia Amerce.	Total.
January.....	\$ 5 25	\$ 98 50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	\$ 103 75
February.....	683 01	16 87	.....	.....	.....	.....	\$48 75	\$ 1 50	.....	.....	.....	.....	750 13
March.....	452 59	427 06	\$ 25 80	\$ 15 00	.....	\$21 80	.....	.....	.....	.....	.....	.....	942 25
April.....	280 76	188 93	28 98	.....	\$ 11 55	.....	.....	.....	.....	.....	.....	.....	510 22
May.....	322 77	229 48	17 20	23 25	9 60	5 60	15 00	.....	\$13 95	\$12 00	.....	.....	648 85
June.....	516 34	111 24	7 50	.....	15 50	5 40	22 00	.....	.....	.....	.....	\$ 12 50	680 48
July.....	329 09	43 75	15 55	.....	.....	.....	.....	.....	.....	.....	.....	.....	388 39
August.....	777 15	150 24	.....	.....	45 33	12 40	.....	.....	.....	.....	.....	.....	985 12
September.....	1,027 78	45 87	.....	.....	156 84	12 00	.....	.....	.....	.....	.....	.....	1,242 49
October.....	1,797 37	70 62	.....	.....	81 54	.....	.....	.....	.....	.....	.....	.....	1,949 53
November.....	956 26	.....	17 20	.....	64 11	.....	22 50	.....	12 40	.....	\$12 00	12 50	1,096 97
December.....	466 44	143 00	.....	23 25	179 67	.....	.....	.....	.....	.....	.....	.....	812 36
Total.....	\$ 7,614 81	\$ 1,525 56	\$ 112 23	\$ 61 50	\$ 564 14	\$57 20	\$108 25	\$ 1 50	\$26 35	\$12 00	\$12 00	\$25 00	\$10,120 54

REPORT

OF THE

CITY TREASURER.

Report of the City Treasurer.

To the Mayor and City Council.

GENTLEMEN:—Herewith I have the honor of submitting the transactions of this office for the fiscal year ending December 31, 1897. This report includes the various transactions in the funds of the Board of Education, and Fire and Police Pension funds, as well as those of the city proper.

CHARLES W. CHASE,

City Treasurer.

STATEMENT SHOWING RECEIPTS AND DISBURSEMENTS OF CITY FUNDS BY MONTHS.

	Receipts.	Disbursements.
January.....	\$ 989,037 98	\$ 219,906 74
February.....	626,227 26	571,486 09
March.....	1,415,889 81	557,887 11
April.....	340,468 94	603,665 53
May.....	457,505 18	528,271 84
June.....	84,038 70	411,768 61
July.....	858,126 04	480,727 94
August.....	1,372,713 05	1,024,206 09
September.....	157,591 69	923,020 43
October.....	446,854 45	608,653 56
November.....	498,525 45	483,016 45
December.....	80,416 24	736,768 94
Total.....	\$7,327,394 79	\$7,149,371 35
Excess of receipts over disbursements.....		\$ 178,023 44
Add balance on hand January 1, 1897.....		1,810,102 93
Balance on hand and in depositories December 31, 1897.....		\$1,988,126 37

DISTRIBUTED AS FOLLOWS:

In Depository No. 1 (Euclid Ave. National Bank).....	\$ 663,832 91	
In Depository No. 2 (Dime Savings & Banking Co.) ..	660,865 44	
In Depository No. 3 (State Nat'l Bank).....	659,597 20	
Total in depositories.....		\$1,984,295 55
In hands of Treasurer in cash (under Section 11 of Depository Law).....	2,000 00	
In tax refunding and tax abatement certificates.....	1,830 82	
Total ...		3,830 82
Total balance as above		\$1,988,126 37

STATEMENT SHOWING DEPOSITS OF CITY FUNDS
DURING 1897.

	With Depository No. 1 (Euclid Ave. Na- tional Bank.)	With Depository No. 2 (Dime Savings & Banking Co.)	With Depository No. 3 (State National Bank.)
January	\$ 329,588 90	\$ 329,035 57	\$ 329,702 75
February.....	207,632 67	207,634 54	207,634 46
March.....	471,292 40	471,361 07	477,191 80
April	112,913 38	112,916 66	112,919 34
May	150,782 99	150,777 62	150,780 73
June	29,942 25	29,946 62	29,942 76
July	296,366 92	285,380 25	286,947 43
August	458,019 82	456,580 41	456,579 59
September.....	53,004 90	52,996 71	52,994 58
October.....	145,573 77	145,578 42	145,579 08
November.....	163,680 33	163,680 20	163,679 28
December.....	32,340 54	32,380 16	32,336 35
	<u>\$2,441,138 87</u>	<u>\$2,438,268 23</u>	<u>\$2,446,278 15</u>
Total			<u>\$7,325,685 25</u>

CHECKS DRAWN.

	On No. 1.	On No. 2.	On No. 3.
January.....	\$ 70,658 12	\$ 71,814 00	\$ 77,434 62
February.....	186,163 00	200,094 29	185,228 80
March.....	186,384 27	179,559 28	191,943 56
April.....	199,730 73	200,796 63	203,138 14
May	173,174 08	172,930 19	182,167 57
June.....	139,111 90	139,501 89	134,154 82
July.....	159,491 71	159,796 57	162,439 66
August	342,356 01	342,724 10	339,125 98
September.....	317,412 71	306,534 17	299,073 55
October.....	191,400 53	205,110 05	212,444 98
November.....	157,291 75	161,635 76	164,088 94
December.....	257,807 45	245,031 79	233,919 70
Totals	<u>\$2,379,982 26</u>	<u>\$2,384,528 77</u>	<u>\$2,384,860 32</u>

Total.....	\$7,149,371 35
Excess deposits over withdrawals.....	176,313 90
Add balance in depositories January 1	1,807,981 65
Balance in depositories at close of business December 31.....	<u>\$1,984,295 55</u>

STATEMENT SHOWING TAX ABATEMENT AND TAX
REFUNDING CERTIFICATES PAID DURING 1897.

Certificates held as cash by Treasurer January 1st.....	\$ 121 28
Paid at Treasurer's office during year.....	158,163 54
	<hr/>
	\$158,284 82
Turned in to Department of Accounts during year.....	156,454 00
	<hr/>
Balance held as cash at close of business December 31st.....	\$ 1,830 82

Water rent, night soil rebates and Police Court jurors' and
witness' fees have been paid as follows :

Water rent rebates.....	\$ 7,425 48
Night soil rebates.....	155 36
Police Court witnesses' and jurors' fees.....	1,416 50

STATEMENT SHOWING RECEIPTS AND DISBURSE-
MENTS OF BOARD OF EDUCATION FUNDS
BY MONTHS.

	Receipts.	Disbursements.
January.....	\$ 126,640 25	\$ 23,091 90
February.....	96,905 80	101,585 28
March.....	478,388 86	229,059 89
April.....	2,318 47	40,273 55
May.....	942 81	117,856 72
June.....	486 42	184,048 90
July.....	125,769 20	44,582 83
August.....	508,647 74	110,182 08
September..	577 73	58,908 76
October.....	1,276 47	155,997 75
November.....	21,275 77	122,101 41
December.....	24,497 96	196,484 16
Totals.....	\$1,387,727 48	\$1,384,173 23
Excess receipts over disbursements.....		\$ 3,554 25
Add balance on hand January 1.....		34,898 70
Balance (in depositories) at close of business December 31.....		\$ 38,452 95

DISTRIBUTED AS FOLLOWS:

In Depository No. 1 (Euclid Ave. National Bank)	\$14,627 16
In Depository No. 2 (Dime Savings & Banking Co).....	12,808 29
In Depository No. 3 (State National Bank).....	11,017 50
Balances as above	\$38,452 95

STATEMENT SHOWING DEPOSITS OF FUNDS OF THE BOARD OF EDUCATION DURING 1897.

	With Depository No. 1 (Euclid Avenue National Bank.)	With Depository No. 2 (Dime Savings & Banking Co.)	With Depository No. 3 (State National Bank.)
January.....	\$ 42,158 25	\$ 42,260 34	\$ 42,221 66
February.....	32,249 00	32,322 48	32,334 32
March.....	158,385 90	158,310 00	161,692 96
April.....	728 00	820 94	769 53
May.....	223 38	345 85	373 58
June.....	202 42	138 74	145 26
July.....	42,011 92	41,900 42	41,856 86
August.....	169,742 74	169,604 15	169,300 85
September.....	244 02	178 71	155 00
October.....	445 55	391 21	439 71
November.....	7,086 80	7,021 76	7,167 21
December.....	8,168 17	8,170 00	8,159 79
	<u>\$161,646 15</u>	<u>\$461,464 60</u>	<u>\$464,616 73</u>
Total.....			<u>\$1,387,727 48</u>

CHECKS DRAWN.

	On No. 1.	On No. 2.	On No. 3.
January.....	\$ 7,932 87	\$ 10,196 90	\$ 4,962 18
February.....	33,892 86	33,641 15	34,051 27
March.....	77,994 50	76,226 88	74,833 51
April.....	11,126 32	12,588 26	16,558 97
May.....	35,920 00	39,943 26	41,993 46
June.....	59,953 28	60,263 46	63,832 16
July.....	15,236 68	18,374 54	10,971 61
August.....	19,850 59	39,095 27	51,236 22
September.....	31,261 19	16,619 58	11,027 99
October.....	52,553 17	52,798 62	50,645 96
November.....	37,186 56	45,311 10	39,603 75
December.....	74,829 61	60,232 98	61,421 57
	<u>\$457,737 63</u>	<u>\$465,292 00</u>	<u>\$461,143 60</u>
Total.....			<u>\$1,384,173 23</u>
Excess deposits over withdrawals.....			\$ 3,554 25
Add balance in depositories January 1st.....			34,898 70
Balance in depositories at close of business December 31st.....			<u>\$ 38,452 95</u>

All employes of the City, Board of Education, Public Library, and Pensioners of the Police and Fire Departments, have been paid in cash at this office on pay-rolls of the various departments, as follows :

DEPARTMENT OF PUBLIC WORKS.

Bridges.....	\$ 74,510 97
Streets.....	103,809 01
Water Works Officers, Pumping Station, employes, etc.....	131,380 41
Water Works pipe-laying.....	91,545 27
Inspectors.....	38,040 00
<hr/>	
Total.....	\$ 439,285 66

DEPARTMENT OF CHARITIES AND CORRECTION.

Workhouse.....	\$ 22,122 76
Infirmary.....	26,610 48
Cemeteries.....	20,360 59
<hr/>	
Total.....	\$ 69,093 83

DEPARTMENT OF POLICE.

Police force.....	\$35,006 56
Market.....	12,590 31
Sanitary	32,639 62
<hr/>	
Total	\$ 410,236 49
Fire Department.....	390,628 59
Park Commission.....	131,019 78
Police Court.....	14,675 78
Board of Elections.....	9,920 00
City General—Comprising Executive, Legislative, Legal, Auditing, Treasury, Secretary of Charities, Employment Bureau, Board of Elections, Justices, Engineers, Board of Equalization, City Hall employes, etc.....	195,370 96
<hr/>	
Total, City proper.....	\$1,660,231 09

Brought forward.....\$1,660,231 09

BOARD OF EDUCATION.

Teachers.....	\$774,950 56		
Officers and Headquarters.....			
Employees.....	56,159 55		
Janitors, Carpenters, etc.....	83,547 15		
Census Enumerators.....	2,384 19	\$917,041 45	
Public Library.....		40,520 13	
Total Board of Education.....			957,561 58

PENSION ROLLS.

Firemen's.....	24,521 37		
Police.....	26,503 20		
Total			51,024 57
Total of all Pay Rolls.....			\$2,668,817 24

STATEMENT OF POLICE AND FIREMEN'S PENSION
FUNDS FOR 1897.

POLICE PENSION FUND.

Balance on hand January 1st, 1897.....		\$ 1,747 30
Received during year.....		55,045 63
		<hr/>
		\$56,792 93
Paid during year on Orders No. 666 to 685 inclusive—		
To pensioners on pay-rolls.....	\$28,369 87	
For death benefits.....	1,000 00	
For Safe Deposit box rent.....	5 00	
Transferred to Savings & Trust Co.....	6,000 00	
Transferred to Society for Savings.....	7,000 00	
Transferred to Cleveland Trust Co.....	6,000 00	
Transferred to Citizens' Savings & Loan Association.....	6,000 00	
	<hr/>	
Total disbursements.....		54,374 87
		<hr/>
Balance at close of business December 31st.....		\$ 2,418 06

FIREMEN'S PENSION FUND.

Balance on hand January 1st, 1897.....		\$ 5,228 39
Received during year.....		51,235 46
		<hr/>
		\$56,513 85
Paid during year on Orders No. 91 to 104 inclusive—		
To pensioners on pay-rolls.....	\$26,480 59	
For Safe Deposit box rent.....	20 00	
	<hr/>	
Total disbursements.....		26,500 59
		<hr/>
Balance at close of business December 31st.....		\$30,013 26

Respectfully submitted,

CHAS. W. CHASE,

City Treasurer.

Annual Report of the City Auditor.

CLEVELAND, O., January 26, 1898.

To the Hon. Robert E. McKisson, Mayor:

SIR:—As required by law, I herewith submit my annual report for the fiscal year ending December 31st, 1897, such report being set forth in tabulated form and arranged as shown in the following "Table of Contents:"

Your attention is especially called to the following items, viz :

a. During the year the assets of the city increased to the extent of \$2,981,340.09 (table No. 146); the liabilities increased \$1,327,909.34, making a net gain to the city of \$1,653, 430.75.

b. There is a net increase of Operating Expenses of \$82,-480.81, made up largely as follows (table No. 139):

Water Works...	\$14,584	27—	Due to increase of plant.
Park	42,685	46—	" " parks.
Police	24,954	10—	" " force.
Lighting	10,032	68—	" " lights.
Infirmary.....	15,261	89—	" large increase of inhabitants.

On the other hand, there will be noticed a marked decrease in the Operating Expenses in the Bridge, Market, Sanitary and House of Correction Departments.

c. There is an increase in the Income or earnings (table No. 140) of \$103,593.63, in spite of the fact that over \$50,000.00, due and payable from the County of Cuyahoga for care of Insane at Infirmery, has not as yet been paid.

d. The House of Correction still continues to be more than self-supporting, showing a profit over and above all expenses of \$4,813.81 (table 87). The Water Works yielded a net profit of \$365,052.92 (table 68); the Market Fund a profit of \$38,231.07, (table 79); and the Cemetery Fund a profit of \$2,591.93 (table 84). As soon as West Park Cemetery is ready to open this last item will increase largely, there being practically no city cemetery lots for sale this past year except in Woodland.

e. The City Tax Levy (table No. 142) was *cut down* from \$13.75 per \$1,000 on the duplicate in 1896 to \$13.60 per \$1,000 in 1897. This is the lowest rate of tax levy for city purposes since 1886, and the lowest rate but one since 1878.

f. Tables Nos. 137 to 146 of this report, giving comparisons for the last eighteen years of expenses, income, valuations, tax levies, receipts from various sources, assets and liabilities, should prove of considerable interest and value.

As to the work performed in the Department of Accounts, the "disbursing division" has during the year issued 13,715 disbursing warrants and 3,236 receiving warrants; 14,870 Orders for goods for the various departments have been certified and forwarded, 299 Contracts certified, 1,478 Resolutions and Ordinances certified to the City Council; 4,552 Reports from the Departments to the Auditor have been "checked up" and proven; 1,252 Reports have been issued to the City Council and Departments. The "tax division" has prepared 66 "Estimated Assessments" for street paving, and has made up tax lists for 404 street improvements, on which the tax assessed has amounted to \$619,692.54. This work occupies about 1,100 pages of Duplicate and involves the looking up of over 27,000 pieces of property. One hundred and forty-three old street improvement funds have been closed off the city's books, on which the surplus tax (amounting to \$90,961.52) was refunded to the property owners.

The old city records from 1835 to 1891 have during the past year been taken from the old boxes and barrels in the attic and basement of the City Hall, carefully arranged, filed and indexed in a room set apart for that purpose, called the "Record Room," and are all now in such condition that any paper or record can be found in a moment. Heretofore it has been a practical impossibility to obtain any information of that kind except after long search in dust and dirt of years' accumulation. The old dockets and records of the Justices of the Peace have also been arranged in like manner in the same room.

Respectfully submitted.

H. L. ROSSITER,

City Auditor.

THE STATE OF OHIO, }
COUNTY OF CUYAHOGA. } ss.

H. L. Rossiter, being first duly sworn, says that he is the duly appointed and qualified City Auditor of the City of Cleveland, and that the matters and facts set forth in the accompanying annual report are true, as he verily believes.

H. L. ROSSITER.

Sworn to before me by said H. L. Rossiter and by him subscribed in my presence this first day of February, A. D. 1898.

ALBERT F. CROSBY,
Notary Public.

[SEAL.]

Officers and Employes of the Department of Accounts.

H. L. ROSSITER Auditor.
ALBERT F. CROSBY Deputy Auditor.
GEO. C. ANGIER General Account.
LUCY B. COLLINS Stenographer.
EDW. D. FOSTER Messenger.
JOHN DAYKIN Chief Clerk, Disbursing Division.
D. E. WINN Accountant, Disbursing Division.
CHAS. F. LOWE Accountant, Disbursing Division.
S. G. BROOKER Book-keeper, Disbursing Division.
CHAS. D. CAMPBELL Book-keeper, Disbursing Division.
JOHN K. ROBINSON Book-keeper, Disbursing Division.
FRED. J. STARKWELL, JR. Clerk, Disbursing Division.
ED. W. DISSETTE Claim Agent.
CLARA WHEELER Bond Clerk.
B. MCCREARY Storekeeper.
E. A. STOCKWELL, Draughtsman and Chief Clerk, Tax Division.
WM. CRASTON Assistant, Tax Division.
BRUNO LOMNITZ Assistant, Tax Division.
CARRIE M. KING Assistant, Tax Division.

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PART I.

GENERAL ANALYSES.

GENERAL ANALYSES.

TABLE No. 1.

CLASSIFIED ANALYSIS OF RECEIPTS, DISBURSEMENTS, ASSETS AND LIABILITIES.

(For itemized analysis, see table No. 2.)

(For analysis according to fundamental purposes, see table No. 3.)

(For analysis according to funds, see table Nos. 4 and 5.)

Cash balance January 1st, 1897		\$ 3,818,907 99
RECEIPTS.		
Taxes.....\$ 3,025,720 77		
Earnings..... 1,249,463 35		
Investments..... 28,033 70		
Total ordinary receipts.....	\$ 4,303,217 82	
Donations.....\$ 81,039 72		
Sale of assets..... 11,078 00		
Loans..... 2,807,921 00		
Total extraordinary receipts.....	2,900,038 72	
Total receipts.....		7,203,256 54
Total to be accounted for.....		11,022,164 53
DISBURSEMENTS.		
Operating expenses.....\$ 2,697,893 09		
Furniture and fixtures..... 81,521 32		
Investments..... 35,766 63		
Total ordinary disbursements.....	2,815,181 04	
Permanent improvements.....\$ 2,577,024 56		
Loans..... 1,485,011 66		
Total extraordinary disbursements.....	4,062,036 22	
Total disbursements.....		6,877,217 26
Cash balance January 1, 1898.....		4,144,947 27
ASSETS.		
Cash.....\$ 4,144,947 27		
Furniture and fixtures..... 1,232,746 75		
Permanent improvements..... 34,139,135 57		
Investments..... 61,691 79		
Total assets.....	39,628,521 38	
LIABILITIES.		
Bonds and notes.....\$ 10,968,492 00		
Deposits..... 26,450 78		
Total liabilities.....	10,994,942 78	
Excess of assets.....	28,633,578 60	

TABLE No. 2.

ITEMIZED ANALYSIS OF RECEIPTS, DISBURSEMENTS,
ASSETS AND LIABILITIES.

For classified analysis see table No. 1.

For analysis according to fundamental purposes see table No. 3.

For analysis according to funds see tables Nos. 4 and 5.

For greater detail see tables indicated after each item below.

Cash in City Treasury January 1, 1897.....	\$1,810,102 98	
Cash in hands of Sinking Fund Commissioners, Jan. 1, 1897..	2,008,805 06	
Total cash.....		\$3,818,907 99
RECEIPTS.		
Received from general tax levy (table No. 6).....	1,902,347 75	
Received from liquor tax (table No. 7).....	407,943 73	
Received from cigarette tax (table No. 8).....	2,363 97	
Received from sewer district tax (table No. 9).....	158,514 00	
Received from special assessments (table No. 10).....	464,418 35	
Received from licenses (table No. 11).....	90,132 97	
Total taxes.....		3,025,720 77
Received from rents (table No. 12).....	673,391 12	
Received from fees (table No. 13).....	116,960 84	
Received from interest (table No. 14).....	366,280 10	
Received from sales (table No. 15).....	92,831 29	
Total earnings.....		1,249,463 35
Received from return of capital in mfg. and merc. enter- prises (table No. 16).....	28,033 70	
Total investments.....		28,033 70
Received from donations (table No. 17).....	81,039 72	
Total donations.....		81,039 72
Received from sale of land (table No. 18).....	11,078 00	
Total sale of assets.....		11,078 00
Received from sale of bonds (table No. 19).....	2,492,000 00	
Received from sale of notes (table No. 20).....	319,960 00	
Received from deposits (table No. 21).....	5,961 00	
Total loans.....		2,807,921 00
Total to be accounted for.....		\$11,022,164 53
DISBURSEMENTS.		
Paid fixed charges (table No. 22).....	\$1,854,044 80	
Paid for supplies (table No. 23).....	843,848 29	
Total operating expenses.....		2,697,893 09
Paid for office furniture (table No. 24).....	2,095 78	
Paid for institution furniture (table No. 25).....	10,463 19	
Paid for machinery and implem'ts (table No. 26).....	68,962 35	
Total furniture and fixtures.....		81,521 32
Paid capital into mfg. and mercantile enterprises (table No. 27).....	35,763 63	
Total investments.....		35,766 63
Paid for land (table No. 28).....	130,304 48	
Paid for buildings (table No. 29).....	157,305 87	
Paid for public ornaments (table No. 30).....	542,003 58	
Paid for public highways (table No. 31).....	839,624 56	
Paid for sewer and water systems (table No. 32).....	907,786 07	
Total permanent improvements.....		2,577,024 56
Paid to redeem bonds (table No. 33).....	1,189,233 66	
Paid to redeem notes (table No. 34).....	287,361 00	
Paid return of deposits (table No. 35).....	8,417 00	
Total loans.....		1,485,011 66
Total disbursements.....		6,877,217 26
Cash in City Treasury January 1, 1898.....	1,988,126 37	
Cash in hands of Sinking Fund Commissioners Jan. 1, 1893...	2,156,820 90	
Total cash (balance).....		\$4,144,947 27

TABLE NO. 2—Continued.

ASSETS.		
Cash in City Treasury (table No. 36).....	\$1,988,126 37	
Cash in hands of Sinking Fund Commissioners (table No. 36).....	2,156,820 90	
Total cash.....		\$4,144,947 27
Office furniture (table No. 37).....	61,761 99	
Institution furniture (table No. 38).....	140,939 53	
Machinery and implements (table No. 39).....	1,080,045 23	
Total furniture and fixtures.....		1,282,746 75
Land, buildings and improvements (table No. 40).....	9,363,560 34	
Public highways (table No. 41).....	12,868,308 84	
Sewer and water systems (table No. 42).....	11,907,266 39	
Total permanent improvements.....		34,139,135 57
Mfg. and merc. enterprises (table No. 43).....	61,691 79	
Total investments.....		61,691 79
Total assets.....		\$39,628,521 38
LIABILITIES.		
Bonds outstanding (tables Nos. 44 to 49 incl.)....	10,306,500 00	-
Notes outstanding (table No. 50).....	661,992 (N)	
Deposits outstanding (table No. 51).....	26,450 78	
Total liabilities.....		10,994,942 78
Excess of assets.....		\$28,633,578 60

TABLE No. 4.
ANALYSIS OF RECEIPTS AND DISBURSEMENTS ACCORDING TO FUNDS.

For classified analysis, see table No. 1: itemized analysis, table No. 2.

For analysis according to fundamental purposes, see table No. 3.

No.	Name of Fund.	See Table No.	Cash on hand Jan. 1, 1897.	Receipts.	Total.	Disbursements.	Cash on hand Jan. 1, 1898.
1	General.....	52	\$ 11,225 53	\$ 286,376 52	\$ 307,602 05	\$ 299,294 43	\$ 8,307 62
2	Bridge.....	63	86,450 28	771,794 49	858,244 77	684,188 77	174,056 00
3	Street.....	66	6 43	138,568 19	138,574 62	136,163 40	2,411 22
4	Water.....	68	138,353 68	1,369,686 83	1,508,040 51	1,355,732 34	152,308 17
5	Park.....	71	340,747 21	881,726 98	1,222,474 19	819,686 68	402,787 51
6	Police.....	74	3,211 25	492,731 57	495,942 82	492,218 15	3,724 67
7	Police Court.....	77	2,814 46	29,186 40	32,000 86	28,478 58	3,522 28
8	Market.....	79	3,024 29	18,070 99	61,095 28	60,189 75	995 53
9	Sanitary.....	82	1,570 81	40,507 74	42,078 55	39,761 66	2,316 89
10	Cemetery.....	84	487 12	31,809 55	32,296 67	26,414 24	5,882 43
11	House of Correction.....	87	30,096 64	70,787 30	100,883 94	76,564 51	24,319 43
12	Infirmary.....	89	45,610 94	135,478 21	181,089 15	159,685 50	21,403 65
13	Fire.....	91	7,501 61	468,102 29	475,603 90	455,978 69	19,625 21
14	Dredging.....	94	238 97	32,672 80	32,911 77	27,150 47	5,761 30

DEPARTMENT OF ACCOUNTS.

TABLE No. 4.—Continued.

No.	Name of Fund.	See Table No.	Cash on hand Jan. 1, 1897.	Receipts.	Total.	Disbursements.	Cash on hand Jan. 1, 1898.
15	Lighting.....	96	\$ 13,293 76	\$ 238,864 45	\$ 252,158 21	\$ 235,325 68	\$ 16,832 53
16	Street Intersections	98	5,474 19	56,358 36	61,832 55	30,127 77	31,704 78
17	Paving.....	99	54,402 63	97,356 33	151,758 96	103,424 13	48,334 83
18	Interest.....	100	32,407 06	297,055 59	329,462 65	262,865 00	66,597 65
19	General Sinking Fund.....	102	32 50	39,519 00	39,551 50	36,900 00	2,751 50
20	Viaduct Sinking Fund.. ..	104	449,435 91	222,247 46	671,683 37	228,000 00	443,683 37
21	Sinking Fund of 1862.....	106	1,368,310 29	74,664 41	1,442,974 70	650 00	1,442,324 70
22	New City Hall Sinking Fund.....	107	202,041 65	69,585 95	271,627 60	.....	271,627 60
23	Art Gallery.....	108	5,000 00	.....	.....	.....	5,000 00
24	City Storeroom.....	109	1,155 31	5,473 38	6,627 69	5,229 75	1,398 94
25	Inspection.....	110	.03 27	2,867 52	3,07 79	2,762 00	308 79
26	Unclaimed Money.....	111	1,958 99	3,223 01	5,192 00	4,944 54	247 46
27	Home Telephone.....	112	5,000 00	.....	5,000 00	5,000 00	.....
28	Gas Inspection.....	113	42 00	1 00	43 00	43 00	.....
29	Brooklyn	114	961 37	21,871 41	22,832 78	22,832 78	.....
30	West Cleveland	115	4,556 32	5,143 46	9,699 78	9,699 78	.....
31	Night Soil.....	116	309 28	20,619 39	20,928 67	20,618 11	310 56
32	Police Contingent.....	117	7,380 96	4,224 49	11,605 45	3,100 00	8,505 45

TABLE No. 4—Concluded.

No.	Name of Fund.	See Table No.	Cash on hand Jan. 1, 1897.	Receipts.	Total.	Disbursements.	Cash on hand Jan. 1, 1898.
33	Sidewalk.....	118	\$ 2,857 76	\$ 2,094 19	\$ 4,951 94	\$ 4,868 83	\$ 283 11
34	River and Harbors	119	249,868 95	250,000 00	449,868 95	464,869 63	35,169 27
35	Intercepting Sewer.....	120	105,483 45	200,000 00	305,483 45	163,292 86	142,190 59
36	Sewer Districts.....	121	200,244 22	102,380 50	702,624 81	494,144 14	208,480 67
37	Street Improvements.....	124	437,148 91	1,328,848 58	1,765,996 49	1,174,134 93	591,863 56
	Total for City.....		3,818,907 99	8,259,909 43	12,078,817 42	7,933,870 15	4,144,947 27
	Transfers .....		.....	1,056,652 89	.....	1,056,652 89	.....
	Net for City.....	1 and 2	3,818,907 99	7,203,256 54	11,022,164 53	8,977,217 26	4,144,947 27

Note—The \$1,056,652.89 transfers as above deducted are as follows:	
From	To
.....	No. 52)..... \$ 3,000 00
.....	No. 63)..... 256,230 10
.....	No. 65)..... 15,190 00
.....	No. 74)..... 25,250 00
.....	No. 91)..... 17,350 00
.....	No. 94)..... 5,100 00
.....	No. 95)..... 43 19
.....	No. 98)..... 4,726 57
.....	No. 99)..... 1,757 46
.....	No. 102)..... 5,450 72
.....	No. 103)..... 11,000 00
.....	No. 104)..... 26,088 92
.....	No. 105)..... 585,576 22
.....	No. 106)..... \$1,056,652 89
Total.....	\$ 1,056,652 89

TABLE NO. 5.
ANALYSIS OF ASSETS AND LIABILITIES ACCORDING TO FUNDS.

For classified analysis see table No. 1. Itemized analysis table No. 2. For analysis according to fundamental purposes see table No. 3.

No.	Name of Fund.	See Table No.	Cash.	Furniture and Fixtures.	Permanent Improvements.	Investments.	Total Assets.	Total Liabilities.
1	General.....	52	\$ 8,307 62	\$ 50,504 13	\$.....	\$.....	\$ 58,811 75	\$
2	Bridge.....	63	174,056 00	656 55	4,101,175 37	.....	4,275,887 92	1,861,000 00
3	Street	66	2,411 22	3,896 64	.....	.....	6,307 86	.....
4	Water.....	68	152,308 17	689,810 17	7,742,795 55	.....	8,584,913 89	2,168,450 78
5	Park.....	71	402,787 51	17,270 61	5,938,177 11	.....	6,358,235 22	1,600,000 00
6	Police.....	74	3,724 67	66,265 93	414,420 88	.....	484,411 48	120,000 00
7	Police Court.....	77	3,522 28	2,121 55	.....	.....	5,643 83	.....
8	Market.....	79	905 53	1,749 94	165,335 58	.....	167,991 05	.....
9	Sanitary.....	82	2,316 89	2,347 78	4,065 22	.....	8,729 89	.....
10	Cemetery	84	5,882 43	10,759 20	263,033 48	.....	279,675 11	.....
11	House of Correction.....	87	24,319 43	34,772 20	310,912 99	59,990 73	429,085 35	.....
12	Infirmary.....	89	21,403 65	27,342 37	642,736 58	.....	691,482 60	.....
13	Fire.. ..	91	19,625 21	375,249 69	421,370 27	.....	816,245 17	217,000 00
14	Dredging	94	5,761 30	.....	.....	.....	5,761 30	.....
15	Lighting.....	96	16,832 53	.....	.....	.....	16,832 53	.....
16	Street Intersections.....	98	31,704 78	.....	.....	.....	31,704 78	.....
17	Paving.....	99	48,334 83	.....	.....	.....	48,334 83	.....

TABLE No 5.—Concluded.

No.	Name of Fund.	See Table No.	Cash.	Furniture and Fixtures.	Permanent Improvements.	Investments.	Total Assets.	Total Liabilities.
18	Interest,.....	100	66,597 65	.....	.....	.....	66,597 65	.....
19	General Sinking.....	102	2,751 50	.....	.....	.....	2,751 50	2,364,650 00
20	Viaduct Sinking.....	104	443,683 37	.....	.....	.....	443,683 37	1,006,000 00
21	Sinking Fund of 1862.....	106	1,442,324 70	.....	.....	.....	1,442,324 70	.....
22	New City Hall Sinking.....	107	271,627 60	.....	.....	.....	271,627 60	.....
23	Art Gallery.....	108	5,000 00	.....	.....	.....	5,000 00	5,000 00
24	City Store-room ...	109	1,398 94	.....	.....	2,601 08	4,000 00	.....
25	Inspection.....	110	308 79	.....	.....	.....	308 79	.....
26	Unclaimed Money.....	111	247 46	.....	.....	.....	247 46	.....
31	Night Soil.....	116	310 56	.....	.....	.....	310 56	.....
32	Police Contingent	117	8,505 45	.....	.....	.....	8,505 45	.....
33	Sidewalk	118	283 11	.....	.....	.....	283 11	.....
34	River and Harbor	119	35,169 27	.....	489,830 73	.....	525,000 00	.....
35	Intercepting Sewer.....	120	142,190 59	.....	67,809 41	.....	210,000 00	.....
36	Sewer Districts.....	121	208,480 67	.....	.....	.....	208,460 87	921,000 00
37	Street Improvements.....	124	591,863 56	.....	13,577,472 40	.....	14,169,335 96	761,842 00
	Totals.....	.....	\$4,144,947 27	\$1,282,746 75	\$34,139,135 57	\$61,691 79	\$39,628,521 38	\$10,994,942 78

PART II

ANALYSES IN DETAIL.

TABLE No. 6.
RECEIPTS IN DETAIL.
GENERAL TAX LEVY.

For condensed statement of taxes see table No. 2.)
(For comparison with former years see tables Nos. 141 and 142.)

NOTE.—This money is collected under authority of Title XII., Div. 9, Chapter 1 of the Revised Statutes of Ohio. The Treasurer of Cuyahoga County is the collector.

The value of all property within the City of Cleveland, as listed for taxation in 1896, was \$138,473,385.00, upon which the City Council, by Ordinance No. 11,921, levied a tax of \$13.25 per \$1,000 (less \$0.05 per \$1,000 deducted by County Auditor), and the Board of Park Commissioners levied a tax of \$0.50 per \$1,000 for interest on park bonds; a total of \$13.70 per \$1,000— \$138,473,385×.0137=levy of.....		\$1,897,085 37
Add delinquent taxes on real estate brought forward from the duplicate of 1895.....	\$76,450 68	
Add net collection of delinquent taxes on personal property.....	4,924 40	
Add levy on omitted property, and property whose valuation has been increased by Board of Equalization, placed upon the tax list by the County Auditor, under authority of §§1039-1040 R. S.	67,010 58	
Add penalties imposed for non-payment (§2844 R. S.).....	4,303 01	
Add one-half of county levy for county bridges collected within the city (§2824 R. S.).....	34,092 14	
		186,780 81
		\$2,083,866 18
Deduct tax abated by County Auditor on account of property whose valuation has been decreased by Board of Equalization (§1039 R. S.).....		\$31,415 49
Deduct tax refunded by County Auditor on account errors in duplicate (§1038 R. S.).....	4,893 85	
Deduct County Treasurer's fees for collection (77 O. L., 137, §1 and 88 O. L., 47, §§1-10).....	8,948 27	
Deduct tax inquisitor's fees (R. S. §§2803-11).....	10,865 31	
Deduct cost of advertising delinquent tax list sale.....	1,047 86	
Deduct amount reserved for Firemen's and Police pension funds (83 O. L. 108, §4).....	35,104 84	
Deduct taxes remaining unpaid at August settlement, 1897.....	89,243 31	
		181,518 43
Net receipts from general levy...		\$1,902,347 75

NOTE.—As required by the law and ordinance cited above, the said \$1,902,347.75 was distributed to the City's funds as follows:

General Fund (table No. 53).....	\$114,113 43	Dredging Fund (table No. 95)....	\$13,587 31
Bridge " " " 64).....	77,571 54	Interest " " " 101)....	135,873 15
Street " " " 69).....	103,263 48	Lighting " " " 97)....	237,777 98
Park " " " 72).....	135,873 14	Paving " " " 99)....	95,111 19
Police " " " 75).....	220,114 48	St.Int's'n " " " 98)....	51,631 79
Sanitary " " " 83).....	36,685 74	Gen.Sink'g " " " 103)....	33,963 28
Fire " " " 92).....	442,946 42	Viad't S'k'g" " " 105)....	203,809 82

TABLE No. 7.
RECEIPTS IN DETAIL.
LIQUOR TAX.

(For condensed statement of taxes, see table No. 2.)
(For comparison with former years see table No. 145.)

NOTE.—This money is collected by the County Treasurer, under authority of an act of the General Assembly of the State of Ohio, passed May 14, 1886, entitled "An act to provide against the evils resulting from traffic in intoxicating liquors," (83 O. L. 157), as amended February 20, 1896, (92 O. L. 34), which act provides for the assessing a tax of \$350 per annum upon each place where the business of traffic in intoxicating liquors is carried on —\$105 for the use of the State of Ohio, and \$245 for the use of the City.

Balance unpaid at July, 1896 settlement, (see report of City Auditor for 1896, table No. 5).....	\$ 348,170 00
Assessment for 1896	623,500 00
Add subsequent additions on account of new businesses started.....	74,141 40
Add penalties for non-payment	6,668 09
Add net collection on real estate duplicate.....	103 74
	<hr/>
	\$1,052,583 23
Deduct tax abated on account of business discontinued.....	\$ 97,213 44
Deduct money refunded on account of business discontinued.....	32,808 34
Deduct County Treasurer's fees for collection, (83 O. L. 157, § 4) ..	4,374 88
Deduct Auditor's fees, (83 O. L. 157)	5,171 98
Deduct amount delinquent and carried to real estate duplicate...	1,752 25
Deduct amount remaining unpaid at settlement.....	328,530 00
	<hr/>
	469,850 89
Net collection.....	<hr/>
	582,732 34
Deduct State of Ohio's portion— $\frac{1}{5}$ —(92 O. L. 34) on all but \$103.74 collection on real estate duplicate.....	174,788 61
	<hr/>
City of Cleveland's portion.....	\$ 407,943 73

NOTE.—In accordance with the law above cited, said \$407,943.73 was distributed to the City's funds, as follows :

General fund — $\frac{1}{5}$ —(table No. 53).....	\$145,694 19
Police " — $\frac{1}{5}$ —(table No. 75).....	145,694 19
Infirmary " — $\frac{1}{5}$ —(table No. 90).....	116,555 35

TABLE NO. 8.
RECEIPTS IN DETAIL.
CIGARETTE TAX.

(For condensed statement of taxes, see table No. 2.)
(For comparison with former years, see table No. 145.)

NOTE—This money is collected by the County Treasurer, under authority of an act entitled "Act to provide against the evils resulting from the traffic in cigarettes, cigarette wrappers, and packages containing the same, and to prevent the sale of the same, cigars and tobacco, to minors, as therein provided," passed May 18th, 1894, (91 O. L. 311) which assesses a tax of \$30.00 per annum on the wholesale traffic in cigarettes, and \$15.00 per annum on the retail traffic in same. One-half of said tax for the use of the State of Ohio, and one-half for the use of the City, to be divided equally between the "Police" Fund and the "Infirmary" Fund.

Assessment for 1896.....		\$ 4,845 00
Balance unpaid on 1895 tax, see Auditor's report for 1896, (table No. 6).....		90 00
Add subsequent additions on account of new businesses started....		584 81
Add penalties for non-payment		18 60
		<hr/>
		\$ 5,538 41
Deduct tax abated on account of business discontinued.....	\$ 72 00	
Deduct money refunded on account of business discontinued.....	217 75	
Deduct Treasurer's fees for collection, (91 O. L. 311).....	38 25	
Deduct Auditor's fees for collection, (91 O. L. 311).....	482 46	
	<hr/>	
		810 46
		<hr/>
Net collection.....		\$ 4,727 95
Deduct State of Ohio's portion, (91 O. L. 311)— $\frac{1}{2}$		2,363 98
		<hr/>
City of Cleveland's portion.....		\$ 2,363 97

NOTE.—In accordance with the law above cited, said \$2,363.97 was distributed to the City's funds, as follows :

Police fund— $\frac{1}{2}$ —(table No. 75).....	\$1,181 99
Infirmary fund— $\frac{1}{2}$ —(table No. 90)	1,181 98

TABLE No. 9.
RECEIPTS IN DETAIL.
SEWER DISTRICT TAX.

(For condensed statement of taxes see table No. 2.)
(For comparison with former years see table No. 143.)
(For statement of Sewer Districts and levy for 1897 see tables Nos. 134 and 136.)

NOTE.—This money is collected under authority of Section 2683 of the Revised Statutes and “An act to provide for the construction and repair of sewers in cities of the second grade of the first class.” (80 O. L. 143.) The County Treasurer is the collector. For the purpose of building main or trunk sewers the city is divided into sewer districts. The boundaries of a district are fixed as nearly as may be by the limits of the territory drained by its main sewer. Upon all the property, *real* and *personal*, within a district, a tax (not exceeding \$3.00 on each \$1,000 of valuation) is levied for the purpose of keeping the sewers in the district clean and in good repair, and constructing such main sewers as may be necessary.

Levy of 1896, as per Ordinance No. 12,645.....	\$163,494 21
Add delinquent tax of former years.....	7,084 96
	<hr/>
	\$170,579 17
Deduct tax abated by County Auditor on account of changes in valuations.....	\$ 85 51
Deduct County Treasurer's fees (7-10 of 1 mill) and County Auditor's fees (5-10 of 1 mill) for collection (77 O. L. 137 24).....	1,931 20
Deduct tax remaining unpaid.....	9,600 67
	<hr/>
	11,617 38
Net collection through County Treasurer.....	\$158,961 79
Less abatements paid.....	447 79
	<hr/>
Net Sewer District tax.....	\$158,514 00

NOTE.—In accordance with the law and ordinance above cited, said \$158,514.00 was distributed to the several sewer district funds, as follows (see table No. 123):

District No.	Rate of Levy per \$1,000.	Amount of Tax Received.	District No.	Rate of Levy per \$1,000.	Amount of Tax Received.
1	\$2 00	\$14,345 87	12	\$1 00	\$2,744 80
2	.....	.....	13	3 00	8,463 84
3	1 00	29,582 27	14	.....	43 04
4	50	2,294 36	15	3 00	48,092 86
5	50	2,271 53	16	3 00	8,600 73
6	.....	.....	17	3 00	8,071 27
7	2 00	24,537 64	18	3 00	5,521 43
8	.....	.....	19	3 00	941 54
9	.....	.....	20	.....	.....
10	3 00	2,049 41	21	3 00	953 92
11	.....	.....	Commercial.	.....	.....

TABLE No. 10.
RECEIPTS IN DETAIL.
SPECIAL ASSESSMENTS.

(For condensed statement of taxes, see table No. 2.)
(For comparison with former years, see table No. 137.)

NOTE.—This money is collected under authority of Title 12, Division 7, Chapter 4, of the Revised Statutes of Ohio, and by virtue of several ordinances passed by the city from time to time, providing for the grading, paving, draining, opening, sewerage or otherwise improving of the city's streets and public highways. The assessment is usually confined to the property immediately abutting upon the improvement, and is laid either according to the front foot of the abutting property or according to the benefits conferred by the improvement, the latter being determined by assessing boards duly designated for the purpose. Either the City or County Treasurer may collect.

Total assessments of 1896.....	\$ 617,004 74
Add delinquencies of former years.....	80,812 77
	<hr/> \$ 697,817 51
Deduct County Treasurer's fees, ($\frac{1}{2}$ of 1 mill) and County Auditor's fees ($\frac{1}{4}$ of 1 mill) for collection, (77 O. L. 137, § 4).....	\$ 7,346 90
Deduct tax remaining unpaid on August, 1897, settlement.....	88,145 02
	<hr/> 93,491 92
Net collections through County Treasurer.....	\$ 603,825 59
Add collections made by City Treasurer.....	40,257 05
	<hr/> 644,082 64
Deduct tax abated and refunded through City Treasurer..	179,664 29
	<hr/> \$ 464,418 35

NOTE.—In accordance with the law and ordinances above cited, said \$464,418.35 was distributed to the City's funds as follows: General Fund (table No. 53), \$2,361.25; Dredging Fund (table No. 95), \$13,985.49; Paving Fund (table No. 99), \$487.68; Unclaimed Money Fund (table No. 111), \$3,233.01; Brooklyn Fund (table No. 114), \$10,871.41; West Cleveland Fund (table No. 115), \$5,143.46; Sidewalk Fund (table No. 118), \$2,094.19; Sewer District Funds (table No. 122), \$2,928.50; Street Improvement Fund (table No. 125), \$423,313.36.

TABLE NO. 11.
RECEIPTS IN DETAIL.
LICENSES.

(For condensed statement of taxes see table No. 2.)

NOTE.—This money is collected under authority of several ordinances of the city. The City Clerk, the Clerk of Board of Park Commissioners, the Director of Police, the City Auditor, and the Director of Public Works are the collectors.

From 1893 stationary engineers and firemen for annual licenses, 50 cents for first issue and 25 cents for re-issue. (Revised Ordinances, §388).....	\$ 559 00
From 66 licenses issued to proprietors of theaters, circuses and other exhibitions. (Revised Ordinances, §393).....	999 00
From 277 annual licenses to owners of express wagons and moving vans (Revised Ordinances, § 243), at \$3.00 each.....	831 00
From 2 annual licenses to owners of cabs (Revised Ordinances, § 243), at \$5.00 each.....	10 00
From 20 annual licenses issued to pawnbrokers (Revised Ordinances, § 775), at \$50.00 each.....	1,000 00
From 2 annual licenses issued to ferry keepers (Revised Ordinances, § 410), at \$10.00 each.....	20 00
From 4 licenses issued to transient dealers (Ordinance No. 3139), at \$15.00 each...	60 00
From 1 license issued to transient dealer (Ordinance No. 3139), at \$45.00.....	45 00
From 781 licenses for street cars in daily operation (Revised Ordinances, § 994), at \$10.00 per annum.....	7,810 00
From sale of privileges at Wade Park.....	450 00
From sale of privileges at Gordon Park.....	200 00
From sale of privileges at Edgewater Park.....	1,335 00
From 1382 licenses issued to peddlers. (Revised Ordinances, §§ 778-781)	12,413 00
From 242 licenses issued to gardeners (Revised Ordinances, § 782), at \$10.00 each..	2,420 00
From 1745 annual licenses to milk peddlers (Revised Ordinances, § 144), at \$1.00 each	1,745 00
From 127 annual licenses issued giving permission to slaughter (Revised Ordinances, § 122), at \$10.00 each.....	1,270 00
From 87 licenses to keepers of livery stables (Revised Ordinances, § 121), at \$1.00 each.....	87 00
From 80 licenses to master plumbers (92 O. L. 263), at \$5.00 each.....	400 00
From 106 licenses to journeymen plumbers (92 O. L. 263), at \$1.00 each.....	106 00
From 123 renewals of master plumbers' licenses at 50c each.....	61 50
From 1 renewal of journeyman plumber's license at 50c each.....	50
From Cleveland Gas Light and Coke Co., 6½ per cent. of gross receipts from sale of gas. (Ordinance No. 2376.).....	47,502 08
From People's Gas Light Co., 6½ per cent. of gross receipts from sale of gas. (Ordinance No. 2376).....	10,808 89
Total receipts from licenses.....	\$ 90,132 97

NOTE—As required by Ordinances cited, the above \$90,132.97 was placed to the credit of the city's funds as follows:

General Fund, (table No. 53) \$3,524.00; Street Fund, (table No. 67) \$7,810.00; Park Fund, (table No. 72) \$1,985.00; Market Fund, (table No. 80) \$14,833.00; Sanitary Fund, (table No. 83) \$3,670.00; New City Hall Sinking Fund, (table No. 107) \$58,310.97.

TABLE NO. 12.
RECEIPTS IN DETAIL.
RENTS.

(For condensed statement of earnings, see table No. 2.)

NOTE.—This money is collected under authority of ordinances duly passed by the City Council. The Directors of Police, Public Works, Secretary of the Board of Park Commissioners, and the City Auditor are collectors.

From tenants for use of rooms and stores in City Hall.....	\$ 7,876 27
From Cleveland Electric Railway Co., for use of Central Viaduct.....	1,500 00
From Cleveland Electric Railway Co., for use of Kingsbury Viaduct.....	300 00
From Cleveland Electric Railway Co., for use of Superior Viaduct.....	300 00
From Cleveland City Railway Co., for use of Superior Viaduct.....	752 00
From tenants for use of land belonging to various bridges, (see table No. 64).....	1,090 98
From water takers (table No. 69).....	623,173 22
From tenants for use of houses on park property.....	84 00
From J. Dwight Palmer, J. P., for use of room in 8th Precinct station.....	325 00
From Market house tenants for use of stalls, benches, curbs, etc.....	38,049 65
<hr/>	
Total from rents	\$673,391 12

NOTE.—The above \$673,391.12 was placed to the credit of the City's funds as follows: General Fund (table No. 53), \$7,876.27; Bridge Fund (table No. 64), \$3,882.98; Water Fund (table No. 69), \$623,173.22; Park Fund (table No. 72), \$84.00; Police Fund (table No. 75), \$325.00; Market Fund (table No. 80), \$38,049.65.

TABLE No. 13.
RECEIPTS IN DETAIL.
FEES.

(For condensed statement of earnings, see table No. 2.)

NOTE.—This money is collected under due authority of law and ordinance fixing the charges for services rendered by city officials.

From costs of court and marriage fees collected by Justices of the Peace.....	\$ 10,482 66
From 2362 permits to plumbers to make water connections (Revised Ordinances, §1022), at \$1 50 each.....	3,543 00
From 2677 permits to plumbers to make sewer connections (Revised Ordinances, §1022), at \$1.50 each.....	3,966 50
From 303 permits to plumbers to open streets for sewer repairs, (Ordinance No. 10028A).....	1,460 29
From charges for tapping water pipes, etc., collected by Water Works.....	12,917 00
From costs and fines for impounding stray animals, collected by pound-keepers (Revised Ordinances, sections 9-10).....	107 46
From fines and costs imposed by Police Judge, collected by Police Court Clerk...	29,136 40
From charges of keepers of city scales (Revised Ordinances, §106).....	2,463 37
From charges for inspecting and sealing weights and measures, collected by City Sealer, (Revised Ordinances, §604).....	2,734 97
From charges for searching records and issuing certificates of death, collected by Health Officer.....	140 00
From charges for searching records and issuing certificates of birth, collected by Health Officer.....	3 00
From charges for interments, disinterments, vault use, and care and improvement of graves, collected by Superintendent of Cemeteries.....	12,993 66
From fines and costs imposed by Police Judge, collected by Superintendent of House of Correction.....	1,629 70
From charges of Building Inspector for the examination of plans and inspection of the construction of buildings, collected by the City Clerk (85 O. L. 299, §5).....	5,883 34
From charges for the examination and inspection of steam boilers, collected by Boiler Inspector (Ordinance No. 1949).....	696 00
From charges for services rendered by the Fire Department in extinguishing fires outside the city limits, collected by Director of Fire.....	95 00
From charges to various R. R. Co.'s for lighting tracks and track intersections (Rev. Ord. §§337-339).....	1,043 47
From charges for testing gas meters, collected by Department of Public Works (Ordinance No. 2632).....	1 00
From charges for inspecting relaying of pavements when removed and relaid by private parties, collected by Director of Public Works.....	2,867 52
From charges for removal of night soil, collected by Health Officer (Revised Ordinances, §39).....	29,619 39
From Officers and Marshal's fees for witnessing and serving writs at Police Court.....	4,224 49
Total from fees.....	\$116,960 84

Gen-
Fund
table
83,
No.
1347;
7.52;
117).

TABLE No. 14.
RECEIPTS IN DETAIL.
INTEREST.

NOTE—Under the provisions of the "Depository Law " (85, O. L. 197) as amended (91, O. L. 263) contracts were entered into for the care of the money of City of Cleveland, with the Euclid Avenue National Bank, the Dime Savings and Banking Co., and the State National Bank, they being the highest and best bidders for same. wherein said banks agree to pay respectively $3\frac{1}{8}\%$ per cent., $3\frac{3}{8}\%$ per cent., and $2\frac{1}{8}\%$ per cent. interest on average daily balances on deposit in such banks. In addition to their general credit, each of such banks gives bond in the sum of \$1,000,000.00 for the safe keeping of such money.

STATEMENT SHOWING AVERAGE DAILY BALANCES.

Month.	Euclid Ave. Nat. Bank.		Dime Sav. and Bkg. Co.		State National Bank.	
	Average Balance.	Interest.	Average Balance.	Interest.	Average Balance.	Interest.
1896						
July	\$680,102 52	\$2,027 45	\$666,761 97	\$1,885 75	\$669,753 51	\$1,678 05
August	668,282 83	1,992 21	670,980 33	1,897 68	671,120 33	1,681 48
September.....	711,840 45	2,053 59	713,663 69	1,953 29	710,614 97	1,723 00
October.....	623,038 91	1,857 34	626,037 48	1,770 57	607,946 48	1,523 20
November	619,169 82	1,786 28	628,322 16	1,719 71	628,126 26	1,515 72
December.....	677,383 90	2,019 35	682,584 36	1,930 50	680,349 34	1,704 60
1897						
January.....	755,615 75	2,252 56	756,190 95	2,138 67	755,446 53	1,892.76
February	934,860 66	2,517 20	931,685 87	2,380 04	931,197 66	2,107 31
March.....	950,724 50	2,834 20	942,845 17	2,666 57	943,156 83	2,363 06
April	1,145,083 82	3,303 49	1,134,841 94	3,106 05	1,139,541 16	2,760 57
May	1,113,661 88	3,319 93	1,106,846 62	3,130 40	1,107,418 72	2,774 61
June.....	994,208 26	2,868 22	992,231 31	2,648 35	986,246 36	2,391 31
Totals		28,831 80		27,267 58		\$24,115 67

Received from Depositaries as above.....	\$80,215 05
Received from premiums on various lots of bonds sold during the year (see table No. 19).....	144,580 17
Received from accrued interest on same (see table No. 19).....	37,107 85
Received from dividends and interest on stocks and bonds in the hands of the Sinking Fund Commissioners to the credit of the "Viaduct Sinking Fund" (see table No. 132).....	18,437 64
Received from dividends and interest on stocks and bonds in the hands of the Sinking Fund Commissioners to the credit of the "Sinking Fund of 1862" (see table No. 132).....	74,664 41
Received from interest on bonds and notes in the hands of the Sinking Fund Commissioners to the credit of the "City Hall Sinking Fund" (see table No. 132).....	11,274 98
Total receipts from interest	\$366,280 10

NOTE.—The above was placed to the credit of the city's funds as follows: Water Fund (table No. 69), \$21,446.34; Park Fund (table No. 72), \$62,405.12; Interest Fund (table No. 101), \$161,182.44; Viaduct Sinking Fund (table No. 105), \$18,437.64; Sinking Fund of 1862 (table No. 106), \$74,664.41; New City Hall Sinking Fund (table No. 107), \$11,274.98; Sewer District Fund (table No. 123), \$16,869.17.

TABLE No. 15.
RECEIPTS IN DETAIL.
SALES.

(For condensed statement of earnings, see table No. 2.)

NOTE—This money is received to reimburse the city for labor and supplies furnished individuals.

From reimbursements to General Fund on account of printing bills.....	\$ 9,304 72
From bills rendered various parties for labor and material in repairing bridges and bridge property	109 97
From bills rendered various parties for labor and material in repairing street pavements opened for sewer and water connections and plumbing, etc.....	3,625 92
From bills rendered various parties for labor and material used in laying and re- pairing private water pipes and connections.....	6,188 58
From sale of house and barns from park property.....	340 00
From sales of lots in city cemeteries	13,815 90
From board of United States and State of Ohio prisoners at Workhouse.....	21,932 97
From board of non-resident and quasi-paupers at Infirmary.....	10,917 07
From sales of produce raised on Infirmary farm.....	635 51
From reimbursements on account of transportation and burial of paupers and prisoners	540 30
From sale of fire horses.....	135 00
From sale of old house on fire property.....	376 00
From sales of old zinc, copper, brass, iron, windows, desks, beds, fire hose, old engine, paper, etc	863 15
From profits on sales of brushes at House of Correction.....	23,996 20
Total receipts from sales	\$ 92,831 29

NOTE—The above \$92,831.29 was placed to the credit of the City's funds as follows: General Fund (table No. 53), \$9,304.72; Bridge Fund (table No. 64), \$109.97; Street Fund (table No. 67), \$3,625.92; Water Fund (table No. 69), \$6,188.58; Park Fund (table No. 72), \$340.00; Police Fund (table No. 75), \$58.51; Cemetery Fund (table No. 85), \$13,815.90; House of Correction Fund (table No. 88), \$46,597.28; Infirmary Fund (table No. 90), \$11,662.88; Fire Fund (table No. 92), \$1,127.53.

TABLE No. 16.

RECEIPTS IN DETAIL.

CAPITAL FROM MANUFACTURING AND MERCANTILE
ENTERPRISES.

(For condensed statement of investments, see table No. 2.)

From brush business at House of Correction (table No. 88).....	\$22,560 32
From stationery and supply business at the City Store Room (table No. 109).....	5,473 38
Total	<u>\$28,033 70</u>

NOTE.—The above \$28,033.70 was distributed to the City's funds as follows:

House of Correction Fund (see table No. 88).....	\$22,560 32
City Store Room Fund (see table No. 109).....	5,473 38

TABLE No. 17.
RECEIPTS IN DETAIL.
DONATIONS.

From J. D. Rockefeller, money to be used in the improvement of Rockefeller Parkway	\$ 81,039 72
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NOTE—The above \$81,039.72 was placed to the credit of " Rockefeller Parkway" in the Park
Fund (see table No. 72.)

TABLE NO. 18.

RECEIPTS IN DETAIL.

SALE OF LAND.

Received from Infirmary part payment of price of Lorain Cemetery, turned over to Infirmary by Res. No. 17659.....	\$ 5,000 00
Received from Cleveland Terminal & Valley Ry. Co. for land appropriated by them from Infirmary property	6,078 00
Total from sale of land.....	\$ 11,078 00

NOTE—The above \$11,078.00 was placed to credit of City's funds as follows, viz: Infirmary Fund (table No. 90), \$6,078.00; Cemetery Fund (table No. 85), \$5,000.00.

TABLE NO. 19.
RECEIPTS IN DETAIL.
SALE OF BONDS.

Date when Bids Received.	Name of Purchaser.	City of No.	Name of Bonds.	No. of Bonds.	Draw Interest From	Mature.	Date of Delivery.	Accrued Interest.	Premium	Rate of Interest Paid by City.	Principal.
Dec. 24, 1896	Dietz, Dennison & Prior, Cl'd	11444	Water w'ks	5750-6349	Oct. 1, 1896	Oct. 1, 1926	Jan. 30, 1897	\$ 2,663 01	\$ 10,450 00	3.72%	\$ 200,000 00
.....	14350	Sew. Dia. 18	8745-8851	Oct. 1, 1896	Oct. 1, 1906	Jan. 8, 1897	65 75	.....	4.00%	6,000 00
Jan. 6, 1897	443	Park.	6949-7198	Aug. 1, 1896	Apr. 1, 1927	Jan. 16, 1897	5,431 50	19,100 50	3.60%	250,000 00
Jan. 20, 1897	13652	Riv. & Har.	7738-8045	Oct. 1, 1896	Oct. 1, 1926	Feb. 3, 1897	3,369 86	20,769 00	3.55%	250,000 00
Feb. 24, 1897	443	Park.	7198-7543	Aug. 1, 1896	Apr. 1, 1927	Mar. 6, 1897	9,435 62	23,427 50	3.57%	350,000 00
Apr. 7, 1897	14750	Police renewal	8452-8151	Apr. 1, 1897	Apr. 1, 1917	Apr. 12, 1897	98 63	6,126 00	3.57%	100,000 00
Apr. 12, 1897	11441-2	Bridge repair.	5705-5749	Oct. 1, 1896	Oct. 1, 1906	Apr. 24, 1897	1,006 03	1,498 50	3.50%	45,000 00
Apr. 20, 1897	14522	Intersecting Sew.	8152-8351	Oct. 1, 1896	Oct. 1, 1921	May 3, 1897	4,666 67	14,977 77	3.54%	200,000 00
.....	16330	W'ks ren'l.	8352-8851	Apr. 1, 189	Apr. 1, 1917	Aug. 28, 1897	8,833 83	.....	4.00%	600,000 00
Oct. 12, 1897	17682	Sew Dia. 5	8942-8961	Oct. 1, 1897	Oct. 1, 1907	Nov. 5, 1897	74 52	986 00	3.41%	20,000 00
Oct. 12, 1897	17683	Sew. Dia. 4	8962-9011	Oct. 1, 1897	Oct. 1, 1907	Nov. 5, 1897	186 30	2,405 00	3.41%	50,000 00
Oct. 12, 1897	17683	Sew. Dia. 5	9012-9018	Oct. 1, 1897	Oct. 1, 1907	Nov. 5, 1897	26 06	245 10	3.41%	7,000 00
Oct. 12, 1897	17683	Sew. Dia. 11	9019-9063	Oct. 1, 1897	Oct. 1, 1907	Nov. 5, 1897	130 41	1,725 60	3.41%	35,000 00
Oct. 12, 1897	17683	Sew. Dia. 12	9064-9103	Oct. 1, 1897	Oct. 1, 1907	Nov. 5, 1897	186 30	2,450 00	3.41%	50,000 00
Oct. 12, 1897	17683	Sew. Dia. 16	9104-9154	Oct. 1, 1897	Oct. 1, 1907	Nov. 5, 1897	190 03	2,514 50	3.41%	51,000 00
Oct. 22, 1897	17683	Sew. Dia. 21	9155-9161	Oct. 1, 1897	Oct. 1, 1907	Nov. 5, 1897	26 08	345 10	3.41%	7,500 00
Oct. 22, 1897	17673	Bridge ren'l.	8852-8941	Oct. 1, 1897	Oct. 1, 1907	Oct. 25, 1897	236 70	4,550 00	3.40%	90,000 00
Oct. 25, 1897	11554	Bridge.	6800-6843	Oct. 1, 1896	Oct. 1, 1925	Oct. 30, 1897	610 63	23,068 60	3.36%	150,000 00
Nov. 15, 1897	17394	Sew. Dia. 3	9162-9175	Oct. 1, 1897	Oct. 1, 1907	Nov. 17, 1897	72 10	737 80	3.37%	14,000 00
Nov. 15, 1897	17396	Sew. Dia. 14	9176-9188	Oct. 1, 1897	Oct. 1, 1907	Nov. 17, 1897	66 95	665 10	3.37%	13,000 00
Nov. 15, 1897	17396	Sew. Dia. 16	9189-9200	Oct. 1, 1897	Oct. 1, 1907	Nov. 17, 1897	61 80	632 40	3.37%	12,000 00
Nov. 15, 1897	18179	Sew. Dia. 14	9201-9230	Oct. 1, 1897	Oct. 1, 1917	Nov. 17, 1897	154 55	2,712 00	3.37%	30,000 00
Nov. 15, 1897	18450	Sew. Dia. 18	9231-9253	Oct. 1, 1897	Oct. 1, 1907	Nov. 15, 1897	15 00	.....	4.00%	3,000 00
.....	Sinking Fund Commission'rs	.....	.....	.....	.....	.....	.....	\$37,107 85	\$ 144,580 17	.....	\$2,452,000 00
.....	Total .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

NOTE—The above \$2,452,000.00 was placed to credit of City's funds as follows: Bridge Fund (table No. 64), \$384,000.00; Water Fund (table No. 69), \$700,000.00; Park Fund (table No. 72), \$400,000.00; Police Fund (table No. 75), \$100,000.00; River and Harbor Fund (table No. 119), \$250,000.00; Interceptor Fund (table No. 120), \$200,000.00; Sewer District Fund (table No. 122), \$288,000.00.

TABLE No. 20.
RECEIPTS IN DETAIL.
SALE OF NOTES.

(For condensed statement of loans, see table No. 2.)

NOTE—This money is derived from the sale of promissory notes issued under authority of § 2704 and § 2705 of the Revised Statutes of Ohio, in anticipation of the collection of special assessments levied for pavements and other street improvements.

Date of Sale.	Receiving Order No.	Numbers of Notes.	Name of Purchaser.	Rate.	Premium.	Accrued Interest.	Principal.
January 8, 1897	23698	970-975	Sinking Fund Commissioners	5	Par	.....	\$ 5,400 00
March 14, 1897	24147	976-980	Sinking Fund Commissioners	5	Par	.....	42,480 00
March 15, 1897	24168	981-985	Sinking Fund Commissioners	5	Par	.....	7,150 00
March 23, 1897	24236	986-994	Sinking Fund Commissioners	5	Par	.....	47,900 00
April 1, 1897	24300	995-1003	Sinking Fund Commissioners	5	Par	.....	25,850 00
April 13, 1897	24384	1004-1012	Sinking Fund Commissioners	5	Par	.....	38,030 00
April 20, 18 7	24443	1013-1021	Sinking Fund Commissioners	5	Par	.....	15,900 00
May 11, 1897	24651	1022-1032	Sinking Fund Commissioners	5	Par	.....	11,650 00
August 6, 1897	25321	1033-1038	Sinking Fund Commissioners	5	Par	.....	6,500 00
September 2, 1897 . .	25532	1039-1048	Sinking Fund Commissioners	5	Par	.....	98,600 00
September 22, 1897 .	25654	1049-1056	Sinking Fund Commissioners	5	Par	.....	17,800 00
November 15, 1897 .	26391	1057-1062	Sinking Fund Commissioners	5	Par	.....	2,700 00
Total . . . . .	.....	.....	.....	.....	.....	.....	\$319,960 00

NOTE—The above \$319,960 00 was placed to credit of various street improvement funds (tables No. 124 to 129.)

TABLE No. 21.
RECEIPTS IN DETAIL.
DEPOSITS.

(For condensed statement of loans, see table No. 2.)

NOTE—This money is collected under a rule of the Water Works Division, requiring a deposit of \$1.00 for each foot of pipe laid at the request of property owners, in streets where the estimated revenue therefrom will not pay 8 per cent. per annum upon the cost of the pipe. When the revenue reaches an amount equal to 8 per cent. per annum the deposit is returned. During 1897 deposits were received as follows:

Depositor.	Street.	Amount.
L. A. Cobb.....	Prescott	\$2,418 00
L. A. Cobb.....	Matley.....	2,418 00
E. W. Andrews.....	Duluth	325 00
Theo. Kundtz.....	Winslow, Center, Elm....	800 00
Total Deposits Received.....	.....	\$5,961 00

TABLE No. 22.

DISBURSEMENTS IN DETAIL.

FIXED CHARGES.

(For condensed statement of operating expenses see table No. 2.)

Paid for rent of City Hall and other property.....	\$37,973 46
Paid for taxes on City Hall.....	6,210 33
Paid for interest on City bonds and notes.....	521,671 76
Paid for storage and care of election booths from January 1st to July 1st, 1897 (County pays for last half of year).....	1,535 43
Paid for Officers' and Marshal's fees (to Police Pension Fund) and for witnesses' fees at Police Court.....	8,004 85
Paid for salaries of City officials and assistants (including Board of Control, De- partment of Public Works, Accounts, Law, Charities, City Council, and Clerks, Treasurer, Justices of the Peace and Clerks, and City Civil Engineer's department).....	165,494 89
Paid for salaries of City Executive officers (including Police and Sanitary Police Officers, Park, Market and Cemetery Superintendents and Police, House of Correction and Infirmary Guards, Nurses and officers, Harbor Master and assistants, and Firemen).....	892,079 05
Paid for salaries of officials employed in part by the City (including Board of Elections and Election Officers, Board of Equalization, Employment Bureau, Police Judge and Police Clerk and assistants).....	39,850 89
Paid for salaries of City employes (including City Hall and Armory janitors and employes, Bridge Captains and assistants, Street and Water Works Superin- tendents and employes).....	181,224 14
Total fixed charges.....	\$1,854,044 80

TABLE NO. 23.

DISBURSEMENTS IN DETAIL.

SUPPLIES.

(For condensed statement of operating expenses, see table No. 2.)

Paid for stationery and office expenses of the various departments.....	\$ 19,426 14
Paid for official advertising and printing.....	12,430 70
Paid for repairs to buildings, machinery, fire-engines and apparatus, bridges, paved streets, water pipes, etc.....	75,403 86
Paid for fuel and light in the various departments.....	72,199 69
Paid for lighting the corporation (see table No. 97).....	235,325 68
Paid for costs of Court and Judgments.....	3,025 42
Paid for care of horses, repair of wagons and care of animals in the "Zoo".....	18,116 80
Paid for commission for paying City bonds and coupons.....	641 31
Paid for gardening material and labor in maintenance of parks and cemeteries....	50,544 40
Paid for care of prisoners and paupers, including food, clothing, transportation, burials, drugs and medicines, and care of injured	115,946 75
Paid for various supplies for the use of departments.....	19,250 76
Paid for cleaning streets, markets, parks, catch-basins, and for removing garbage and night-soil.....	158,061 18
Paid for contingent expenses in the various departments.....	22,993 92
Paid for dredging and cleaning the Cuyahoga River (see table No. 95.).....	25,150 47
Paid for sewer and water connections, and for tapping water pipes.....	12,231 21
Paid for Secret Service (Police Contingent Fund).....	3,100 00
Total Supplies.....	843,848 29

TABLE No. 24.

DISBURSEMENTS IN DETAIL.

OFFICE FURNITURE.

(For condensed statement of furniture and fixtures, see table No. 2.)

Paid for desks, chairs, office tables, filing cases, typewriters, law books and carpets for the various departments.....	\$2,095 78
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TABLE No. 25.

DISBURSEMENTS IN DETAIL.

INSTITUTION FURNITURE.

(For condensed statement of furniture and fixtures, see table No. 2.)

Paid for street signs.	\$ 4,517 00
Paid for chairs, stoves and furniture for bridge tenders.....	42 55
Paid for furniture for pumping stations.....	238 42
Paid for equipping police stations.....	2,348 57
Paid for scales and furniture for markets.....	108 67
Paid for iron settees and fixtures for cemeteries.....	286 62
Paid for cells, bedsteads and furniture for House of Correction.....	364 53
Paid for hospital and dining-room furniture and fixtures for Infirmary.....	2,280 86
Paid for equipping fire stations.....	265 97
Total.....	\$10,463 19

TABLE No. 26.

DISBURSEMENTS IN DETAIL.

MACHINERY AND IMPLEMENTS.

(For condensed statement of furniture and fixtures, see table No. 2.)

Paid for picks, shovels and tools for street cleaners.....	\$ 14 15
Paid boilers, engines, pumps and machinery for water works pumping stations....	52,592 73
Paid for picks, shovels and implements for park employes.....	890 00
Paid for animals for Wade Park "Zoo".....	565 00
Paid for patrol apparatus.....	2,022 28
Paid for horses, wagons and implements for use at Infirmary.....	289 85
Paid for fire service apparatus.....	9,025 73
Paid for horses, harness and wagons for fire service.....	3,562 61
Total.....	<u>\$68,962 35</u>

TABLE No. 27.

DISBURSEMENTS IN DETAIL.

PAYMENT OF CAPITAL INTO MANUFACTURING AND
MERCANTILE ENTERPRISES.

(For condensed statement of investments, see table No. 2.)

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Paid for raw material and miscellaneous supplies for brush business at House of Correction. (See table No. 88.).....	\$30,536 88
Paid for stationery and miscellaneous supplies for the stock in the City store room. (See table No. 109.).....	5,229 75
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Total	35,766 63
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TABLE No. 28.

DISBURSEMENTS IN DETAIL.

LAND.

Paid H. L. Vail, County Clerk, for awards and costs assessed for land for Main street bridge.....	\$25,061 84
Paid W. A. Creech, settlement of claim for land for Main street bridge.....	100 00
Paid Hanse Krause et al., settlement of claim for land for Main street bridge....	1,100 00
Paid Akron sewer Pipe Co. for land for Centerstreet bridge.....	17,000 00
Paid for recording deed of same.....	80
Paid L. S. & M. S. R. R. Co. for land for Willow street bridge.....	16,600 00
Paid Adolph Steiner for land for Willson avenue bridge.....	4,500 00
Paid Sarah Francis for land for Willson avenue bridge.....	800 00
Paid J. and A. Novak for land for Praha street bridge	700 00
Paid F. and B. Nousek for land for Praha street bridge.....	600 00
Paid J. and A. Matuska for land for Praha street bridge.....	1,200 00
Paid J. and A. Vitar for land for Praha street bridge.....	1,225 00
Paid for options, abstracts and recording deeds of above.....	104 70
Paid Felix Tassel for land for Willett street bridge.....	675 00
Paid Mary McGuire for land for Willett street bridge	1,490 95
Paid Ignatius F. Horstmann for land for Willett street bridge.....	4,000 00
Paid F. C. Goodman for land for Willett street bridge.....	4,250 00
Paid for abstracts and recording deeds of above.....	5 80
Paid Helen M. Adams for land for Reservoir Park.....	7,500 00
Paid award and costs for land of J. J. McTigue for land for Edgewater Park.....	981 41
Paid Thos. Quirk et al, for land for Brooklyn Park.....	7,563 59
Paid J. M. Poe for land for Brooklyn Park	25,811 00
Paid court costs for appropriating above.....	734 39
Paid F. Silberg for land to be added to West Park Cemetery.....	1,900 00
Paid Martin and D. Dangler for land to be used for Fire Station No. 18.....	2,500 00
Paid Cemetery Association part payment on Lorain street property to be used for Infirmary purposes (Ordinance No. 17,659).....	5,000 00
Total for land.....	\$130,304 48

NOTE.—This does not include land purchased for river widening purposes (for which see table No. 119), nor land purchased for intercepting sewer purposes (for which see table No. 120) The former, after being acquired by the city, is excavated and made a part of the Cuyahoga River channel, and is therefore charged to "Highways" (table No. 31); while the latter, being a part of the cost of the Interceptor, is charged to "Sewer System" (table No. 32).

TABLE No. 29.

DISBURSEMENTS IN DETAIL.

BUILDINGS.

(For condensed statement of permanent improvements, see table No. 2.)

Paid on contracts on Division St. Pumping Station.....	\$ 52,564 25
Paid for buildings on Park property.....	85,273 05
Paid for completion of work on 4th and 5th Precinct Police Stations.....	2,623 30
Paid on contracts for Children's Hospital.....	13,014 58
Paid for completion of work on fire stations.....	3,830 69
Total for buildings.....	<hr/> \$157,305 87

TABLE No. 30.

DISBURSEMENTS IN DETAIL.

PUBLIC ORNAMENTS.

(For condensed statement of permanent improvements, see table No. 2.)

Paid for fountains and fences in parks and cemeteries.....	\$ 690 18
Paid for monuments and statues.....	
Paid for grading, paving and road improving, in parks and cemeteries.....	541,313 40
Total	542,003 58

TABLE No. 31.
DISBURSEMENTS IN DETAIL.
PUBLIC HIGHWAYS.

(For condensed statement of permanent improvement, see table No. 2.)

Paid for construction and reconstruction of bridges.....	\$ 74,468 52
Paid for grading and paving crosswalks.....	6,266 00
Paid for grading, paving and improving in front of City property.....	9,731 72
Paid for paving of street intersections.....	3,079 68
Paid for grading and laying sidewalks.....	1,668 83
Paid for street pavements.....	259,541 82
Paid for street gradings and curbing, openings and widenings, including land acquired for same	25,268 31
Paid on river and harbor improvements, including land acquired for same, (see table No. 119).....	459,599 68
Total.....	\$839,624 56

TABLE No. 32.

DISBURSEMENTS IN DETAIL.

SEWER AND WATER SYSTEMS.

(For condensed statement of permanent improvements, see table No. 2.)

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Paid for extension of water pipe system (see table No. 69).....	\$448,247 03
Paid for extension of sewer pipe system, including land and rights of way acquired for same (see tables Nos. 120 and 127).....	459,539 04
Total.....	907,786 07
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TABLE NO. 33.
DISBURSEMENTS IN DETAIL.
BONDS REDEEMED.

Class of Bonds Redeemed.	Rate.	Numbers.	Date of Issue.	Date of Maturity.	Amount.
Fire Department	6	Brooklyn ...	1893	Mar. 1, 1897...	\$ 1,500 00
Sewer District No. 17.....	5	2825-2826	1894	Apr. 1, 1897...	2,000 00
Street Improvement.....	5	.....	1893	Apr. 1, 1897...	62,000 00
Street Improvement.....	4	150-154	1890	Apr. 1, 1897...	5,000 00
Viaduct.	6	1-125	1877	June 1, 1897...	125,000 00
Street Improvement.....	6	Brooklyn ...	1889-93	Sept. 1, 1897...	21,666 66
Street Improvement.....	6	Brooklyn ...	1890	Sept. 1, 1897...	3,567 00
Fire Department	6	Brooklyn ...	1893	Sept. 1, 1897...	500 00
Water Works.....	6	1-500	1883	Sept. 1, 1897...	500,000 00
Street Improvement.....	4	155-159	1890	Oct. 1, 1897 ...	5,000 00
Street Improvement.....	5	.....	1893	Oct. 1, 1897 ...	76,000 00
Bridge Repair.....	5	1938-1953	1892	Oct. 1, 1897 ...	16,000 00
Bridge Repair.....	4½	2002-2075	1892	Oct. 1, 1897 ...	74,000 00
Police.	4½	1621-1720	1892	Oct. 1, 1897 ...	100,000 00
Sewer District No. 7.....	5	246-255	1892	Oct. 1, 1897 ...	10,000 00
Sewer District No. 10.....	5	573	1893	Oct. 1, 1897 ...	1,000 00
Sewer District No. 14.....	5	628-629	1892	Oct. 1, 1897 ...	2,000 00
Sewer District No. 15.....	5	96-140	1887	Oct. 1, 1897 ...	45,000 00
Sewer District No. 16.....	5	1954-1959	1893	Oct. 1, 1897 ...	6,000 00
Sewer District No. 17.....	5	2827-2828	1894	Oct. 1, 1897 ...	2,000 00
Sewer District No. 18.....	5	737-741	1892	Oct. 1, 1897 ...	5,000 00
Funded Debt.....	5	1-26	1884	Oct. 1, 1897 ...	26,000 00
Viaduct.	6	1-100	1877	Nov. 1, 1897...	100,000 00
Total .....	.....	.....	.....	.....	\$1,189,233 66

TABLE NO. 34.

DISBURSEMENTS IN DETAIL.

NOTES REDEEMED.

Date of Payment.	Voucher No.	Numbers of Notes Redeemed.	Amount.
April 13, 1897.....	45430	842-874-879-884-891-896-900-906-910-920-926-936-940-950-960-966-970.....	\$ 63,770 00
April 16, 1897.....	45680	716-752-724-732-791-795-799-806-812-820-836-851-861	64,583 00
April 23, 1897.....	45991	662.....	530 00
Sept. 1, 1897.....	50737	843-844-875-880-885-892-897-901-907-911-921-927-937-941-951-961-967-971-976-981-986-995-1004-1013-1022.....	92,870 00
Sept. 11, 1897.....	51147	663.....	530 00
Octo. 12, 1897.....	52399	368-725-733-813-821-837-852-862-717-753-792-796-800-807.....	65,078 00
		Total Notes Paid.....	\$287,361 00

TABLE No. 35.

DISBURSEMENTS IN DETAIL.

DEPOSITS RETURNED.

(For condensed statement of loans paid, see table No. 2.).

NOTE.—Money is collected under a rule of the Water Works Division requiring a deposit of \$1.00 for each foot of pipe laid at the request of property owners in streets where the estimated revenue therefrom will not pay 8 per cent. per annum upon the cost of the pipe. When the revenue reaches an amount equal to 8 per cent. per annum the deposit is returned. During 1897, deposits were returned to depositors as follows:

Depositor.	Street.	Amount.
Eliza and John Stanley and Seabrook.....	Verona, Braggs.....	\$ 825 00
Jos. Stanley estate.....	Renous.....	270 00
Curtiss & Ambler.....	Studley.....	717 00
Franz M. Penndorf.....	Elsa Place.....	190 00
Sarah Francis.....	Phletus, Justus, Almond.....	1,340 00
Homer Mireau.....	Scranton.....	75 00
Total Water Works deposits returned.....		\$3,417 00
On April 30, 1896, The Home Telephone Co. deposited with the City Treasurer the sum of \$5,000 as a guarantee of its fulfilling the provisions of its agreement with the city, according to Ordinance No. 9287B, § 11. On February 27, 1897, all the terms of above-mentioned agreement having been complied with, such deposit was returned to said Home Telephone Co., viz.....		5,000 00
Total deposits returned.....		\$8,417 00

TABLE NO. 36.
ASSETS IN DETAIL.

CASH.

(For condensed statement of assets, see table No. 2.)

IN CITY TREASURY:

Balance in Depository No. 1 (Euclid Av. Nat. Bank) as per report of said bank for Dec. 31, 1897.....	\$723,486 76
Balance in Depository No. 2 (Dime Sav. and Bkg. Co.) as per report of said bank for Dec. 31, 1897.....	721,410 58
Balance in Depository No. 3 (State Nat'l Bank) as per report of said bank for Dec. 31, 1897.....	706,011 87
Cash deposited by City Treasurer January 3, 1898 (same being collections of Dec. 31, 1897, and a part of 1897 receipts) as per report of City Treasurer for January 3, 1897.....	16,524 91
Cash in hands of City Treasurer to meet contingencies of the City (Sec. 11, Depository law).....	2,000 00
Cash in hands of City Treasurer advanced on tax refunding certificates (Sec. 11, Depository law).....	1,830 82
Total	2,171,264 94
Less amount of checks issued by City Treasurer and not presented at banks for payment on Dec. 31, 1897, viz.:	
On Euclid Av. Nat'l Bank.....	\$65,163 70
On Dime Sav. and Bkg. Co.....	66,053 14
On State Nat'l Bank.....	51,921 73
	<u>183,138 57</u>
Net cash in City Treasury..	1,988,126 37

IN HANDS OF SINKING FUND COMMISSIONERS:

To credit of Sinking Fund of 1862 (see tables No. 106 and 132).....	\$1,442,324 70
To credit of Viaduct Sinking Fund (see tables No. 105 and 132).....	442,868 60
To credit of New City Hall Sinking Fund (see tables No. 107 and 132).....	271,627 60
Total cash in hands of Commissioners.....	2,156,820 90
Total Cash.....	4,144,947 27

TABLE No. 37.

ASSETS IN DETAIL.

OFFICE FURNITURE.

(For condensed statement of furniture and fixtures, see table No. 2.)

Desks, chairs, filing cases, racks, typewriters, tables, partitions, atlases, vaults, law books and fittings in use in City Hall, exclusive of Water, Police and Fire offices, as per inventory.....	\$ 45,987 13
Ditto in Water Works office, as per inventory.....	10,159 84
Ditto in Department of Police offices.....	1,000 00
Ditto in Department of Fire Service offices, as per inventory.....	972 70
Office furniture in office of Park Commissioners, No. 76 Euclid, as per inventory.	377 47
Desks, chairs, wardrobes, cases, etc., in Police Court offices, as per inventory.....	2,121 55
Office furniture in office of Health Officer, as per inventory.....	825 80
Desks, tables, counters, etc., in Out-door Relief office, as per inventory.....	317 50
Total	\$ 61,761 99

TABLE NO. 38:

ASSETS IN DETAIL.

INSTITUTION FURNITURE.

(For condensed statement of furniture and fixtures, see table No. 2.)

Street signs.....	\$ 4,517 00
Stoves, stools and furniture in stations of bridge-tenders, as per inventory.....	656 55
Equipment and furniture of Water Works pumping stations and reservoir stations, as per inventory.....	13,372 07
Settees, furniture and fixtures of the City Parks.....	10,294 34
Equipments of the several Police and Patrol Stations	25,280 31
Furniture and fixtures in the Market House, as per inventory.....	1,749 94
Cemetery fixtures and furniture, as per inventory.....	10,759 20
Prison cells, prison furniture and fixtures at House of Correction, including un- used supplies, as per inventory.....	34,772 20
Hospital and Infirmary furniture and fixtures, as per inventory.....	26,139 92
Equipment of the several fire stations, as per inventory.....	13,488 00
Total.....	\$140,939 53

TABLE No. 39.

ASSETS IN DETAIL.

MACHINERY AND IMPLEMENTS.

(For condensed statement of furniture and fixtures, see table No. 2.)

Road scrapers, hose, picks, shovels and tools for use in cleaning and repairing streets, as per inventory.....	\$ 3,896 64
Boilers, engines, pumps, electric plant and tools and implements in use in Water Works pumping stations and for water works purposes, as per inventory....	666,278 26
Picks, shovels, surveyor's instruments, and tools used in improving and maintaining public parks.....	6,688 79
Patrol apparatus, horses, harness, wagons and implements for use by police....	39,985 62
Food Inspector's implements, and chemical apparatus, as per inventory.....	1,521 98
Laundry machinery and tools and implements at Infirmary.....	884 95
Engines, trucks and apparatus for use in the fire service (including horses and harness) as per inventory.....	360,788 99
Total.....	\$1,080,045 23

TABLE NO. 40.

ASSETS IN DETAIL.

LAND, BUILDINGS AND IMPROVEMENTS.

(For condensed statement of permanent improvements, see table No. 2.)

Land and buildings at Division Street pumping station..	\$ 410,334 07
Land and buildings at Fairmount reservoir.....	401,125 00
Land and buildings at Kinsman reservoir.....	145,162 13
Land and buildings at Fairmount pumping station.....	207,021 24
Land and buildings at Kirtland pumping station.....	35,274 34
Land on Ridge avenue and Glenville option.....	4,591 45
Public parks, parkways and driveways.....	5,938,177 11
Buildings and grounds complete for Police service, consisting of twelve police stations and five patrol stations.....	414,420 88
Land and buildings used for market purposes.....	165,335 58
Public bathing houses.....	4,065 22
City cemeteries.....	263,033 48
Buildings and grounds constituting the House of Correction	310,912 99
Buildings and grounds constituting the City Hospital, City Infirmary and farm	642,736 58
Land and buildings complete for fire service, consisting of twenty-six engine companies', one hose company's and nine hook and ladder companies' stations.....	421,370 27
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Total.....	\$9,363,560 34

TABLE No. 41.

ASSETS IN DETAIL.

PUBLIC HIGHWAYS.

(For condensed statement of permanent improvements, see table No. 2.)

Viaduct and bridge property complete.....	\$ 4,101,175 37
Cuyahoga River, widening and improving.....	489,836 73
City's portion of streets, pavements, gradings and improvements, including curb, street intersections, sidewalks and crosswalks.....	8,277,302, 74
Total.....	12,868,308 84

TABLE NO. 42.

ASSETS IN DETAIL.

SEWER AND WATER SYSTEMS.

(For condensed statement of permanent improvements, see table No. 2.)

The system of water pipes, connections, tunnels, cribs and fittings, complete...	\$6,539,287 32
The system of sewer pipes, connections and fittings, complete, including Inter- ceptor	5,367,979 07
Total.....	<u>\$11,907,266 39</u>

TABLE NO. 43.

ASSETS IN DETAIL.

MANUFACTURING AND MERCANTILE ENTERPRISES.

(For condensed statement of investments, see table No. 2.)

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Value of manufactured and raw stock for brush manufacture, on hand at House of Correction	\$32,460 71
Total of bills and accounts receivable at House of Correction.....	26,630 02
Value of stationery and supplies on hand in City Storeroom.....	2,601 06
	<hr/>
Total	\$61,691 79
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TABLE No. 44.
LIABILITIES IN DETAIL.
BONDS.

(For condensed statement of liabilities, see table No. 2.)
(For comparison with former years, see table No. 144.)

RECAPITULATION OF BONDED INDEBTEDNESS OF THE CITY

	1898	1899	1900	1901	1902	1903	1904
Bridge—Superior St. Viaduct (table No. 45)	\$ 570,000	\$.....	\$.....	\$.....	\$.....	\$.....	\$ 150,000
“ Elevated Roadway (table No. 45)	.....	.....	.....	235,000	100,000	325,000	232,000
“ Kingsbury Bridge (table No. 45)	.....	125,000	120,000	.....	.....	.....	.....
“ Pearl St. Bridge (table No. 45)	.....	.....	.....	.....	30,000	25,000	.....
“ Repairs (table No. 45)	.....	.....	.....	.....	.....	285,000	.....
“(table No. 45)	.....	.....	.....	.....	.....	.....	.....
Canal (table No. 45)	11,000	.....	.....	.....	.....	150,000	.....
Fire Department (table No. 45)	.....	.....	.....	.....	100,000	147,000	.....
Funded Debt (table No. 45)	334,000	265,000	156,000	139,000	273,000	.....	100,000
Intercepting Sewer (table No. 45)	.....	.....	.....	.....	.....	.....	.....
Park (table No. 45)	.....	.....	.....	.....	.....	.....	.....
Police Station (table No. 45)	.....	.....	.....	20,000	.....	.....	.....
River and Harbor (table No. 45)	.....	.....	.....	.....	.....	.....	.....
Brooklyn General (table No. 45)	4,700	3,400	1,700	1,850	.....	.....	.....
Street Improvements (table No. 46)	22,370	21,070	21,130	13,130	10,750	4,000	4,000
Sewer District (table No. 47)	94,000	45,000	106,000	98,000	62,000	51,000	20,000
Water Works (table No. 48)	.....	.....	275,000	.....	500,000	312,000	.....
Total	\$1,036,070	\$ 460,070	\$ 679,830	\$ 506,980	\$1,075,750	\$1,299,000	\$ 506,000

TABLE NO. 44.

LIABILITIES IN DETAIL.
BONDS.

(For condensed statement of liabilities, see table No. 2.)
(For comparison with former years, see table No. 144).

OF CLEVELAND, DECEMBER 31, 1897, MATURING AS FOLLOWS:

1905	1906	1907	1916	1917	1921	1923	1924	1926	1927	Total.
\$.....	\$.....	\$ 125,000	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$ 845,000
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	892,000
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	245,000
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	55,000
.....	45,000	90,000	.....	.....	.....	.....	.....	.....	.....	420,000
.....	.....	.....	.....	.....	.....	.....	.....	249,000	.....	249,000
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	161,000
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	247,000
.....	.....	.....	276,000	.....	.....	.....	.....	.....	.....	1,543,000
.....	.....	.....	.....	.....	200,000	.....	.....	110,000	.....	310,000
.....	.....	.....	.....	.....	.....	500,000	500,000	.....	600,000	1,600,000
.....	.....	.....	.....	100,000	.....	.....	.....	.....	.....	120,000
.....	.....	.....	.....	.....	.....	.....	.....	500,000	.....	500,000
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	11,650
2,800	.....	.....	.....	.....	.....	.....	.....	.....	.....	99,850
23,000	107,000	262,000	23,000	30,000	.....	.....	.....	.....	.....	921,000
200,000	.....	.....	.....	500,000	.....	.....	.....	300,000	.....	2,087,000
\$ 225,800	\$ 152,000	\$ 477,000	\$ 299,000	\$ 630,000	\$ 200,000	\$ 500,000	\$ 500,000	\$1,159,000	\$ 600,000	\$10,306,500

TABLE NO. 45.
LIABILITIES IN DETAIL.
STATEMENT SHOWING THE AMOUNT OF GENERAL BONDS
1897, AND MATUR-

Class of Bonds.	Rate per cent.	Date of Original Issue.	Amount of Original Issue.	Months when Principal and Interest are due.	Record No. and Page.	1898		1899	1900	1901	1902
						1st half	2d half.				
Bridge—(Sup'r St. Via.	5	1877	\$125,000	June & Dec.	1-75	\$.....	\$.....	\$... ..	\$.....	\$.....	\$.....
“ “ “	6	1878	100,000	Mar. & Sept.	1-89	100,000	.....	.....	.....	.....	.....
“ “ “	6	1878	300,000	June & Dec.	1-93	300,000	.....	.....	.....	.....	.....
“ “ “	6	1878	170,000	May & Nov.	1-104	.....	170,000	.....	.....	.....	.....
“ “ “	4	1893	150,000	April & Oct.	8-180	.....	.....	.....	.....	.....	.....
Bridge—(Kingsbury)...	5	1884	65,000	“	2-100	.....	.....	65,000	.. ..	.....	.....
“ “ “	4½	1835	60,000	“	2-102	.....	.....	60,000	.....	.....	.....
“ “ “	4	1885	60,000	“	2-104	.....	.....	.....	60,000	.....	.....
“ “ “	4	1886	30,000	May & Nov.	2-106	.....	.....	.....	30,000	.....	.....
“ “ “	4	1887	10,000	Mar. & Sept.	2-107	.....	.....	.....	10,000	.....	.....
“ “ “	5	1887	20,000	April & Oct.	2-108	.....	.....	.....	20,000	.....	.....
Bridge—(Elev'd R'd'y)	4	1886	175,000	Jan. & July	2-120	.....	.....	.....	.....	175,000	.....
“ “ “	4	1886	60,000	May & Nov.	2-126	.....	.....	.....	.....	60,000	.....
“ “ “	4	1886	100,000	April & Oct.	2-128	.....	.....	.....	.....	.....	100,000
“ “ “	4	1887	100,000	Jan. & July.	2-132	.....	.....	.....	.....	.....	.....
“ “ “	4	1887	75,000	June & Dec.	2-135	.....	.....	.....	.....	.....	.....
“ “ “	5	1887	150,000	“	2-138	.....	.....	.....	.....	.....	.....
“ “ “	5	1888	100,000	“	2-143	.....	.....	.....	.....	.....	.....
“ “ “	5	1888	114,000	“	2-147	.....	.....	.....	.....	.....	.....
“ “ “	5	1888	10,000	“	2-150	.....	.....	.....	.....	.....	.....
“ “ “	5	1889	8,000	“	2-150	.....	.....	.....	.....	.....	.....
Bridge—(Pearl St. Bdg.)	4	1886	10,000	April & Oct.	1-144	.....	.....	.....	.....	.....	10,000
“ “ “ “	4	1887	25,000	“	1-144	.....	.....	.....	.....	.....	20,000
“ “ “ “	5	1887	20,000	“	1-145	.....	.....	.....	.....	.....	.....
“ (Repair)	4	1897	45,000	“	8-74	.....	.....	.....	.....	.....	.....
“ “	4	1897	90,000	“	8-75	.....	.....	.....	.....	.....	.....
“ “	5	1893	285,000	“	8-15	.....	.....	.....	.....	.....	.....
“ “	4	1896	249,000	“	9-42	.....	.....	.....	.....	.....	.....
Forward.....	.....	.....	.....	.....	.....	\$400,000	\$170,000	\$125,000	\$120,000	\$235,000	\$130,000

TABLE No. 45.
LIABILITIES IN DETAIL.
OF THE CITY OF CLEVELAND OUTSTANDING DECEMBER 31,
ING AS FOLLOWS:

1903	1904	1906	1907	1916	1917	1921	1923	1924	1926	1927	Totals.
\$.....	\$.....	\$.....	\$125,000	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$ 125,000
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	100,000
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	300,000
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	170,000
.....	150,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	150,000
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	65,000
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	60,000
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	60,000
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	30,000
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	10,000
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	20,000
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	175,000
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	60,000
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	100,000
100,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	100,000
75,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	75,000
150,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	150,000
.....	100,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	100,000
.....	114,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	114,000
.....	10,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	10,000
.....	8,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	8,000
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	10,000
5,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	25,000
20,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	20,000
.....	.....	45,000	.....	.....	.....	.....	.....	.....	.....	.....	45,000
.....	.....	.....	90,000	.....	.....	.....	.....	.....	.....	.....	90,000
285,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	285,000
.....	.....	.....	.....	.....	.....	.....	.....	.....	249,000	.....	249,000
635,000	382,000	45,000	215,000	.....	.....	.....	.....	.....	249,000	.....	\$2,706 000

TABLE No. 45.—Concluded.
LIABILITIES IN DETAIL.
STATEMENT SHOWING THE AMOUNT OF GENERAL BONDS
1897, AND MATUR-

Class of Bonds.	Rate per cent.	Date of Original Issue.	Amount of Original Issue.	Months when Principal and Interest are due	Record No. and Page.	1898.		1899	1900	1901	1902
						1st half	2d half.				
<i>Brought forward</i> .....	.....	.....	.....	.....	.....	\$400,000	\$170,000	\$125,000	\$120,000	\$235,000	\$130,000
Canal.....	5	1893	\$ 150,000	April & Oct.	8-136	.....	.....	.....	.....	.....	.....
Canal.....	6	1879	11,000	May & Nov.	1-74	.....	11,000	.....	.....	.....	.....
Fire Department.....	5	1893	100,000	April & Oct.	8-125	.....	.....	.....	.....	.....	100,000
Fire Department.....	5	1893	147,000	"	8-129	.....	.....	.....	.....	.....	.....
Funded Debt	4	1886	117,000	Mar.&Sept.	1-148	.....	117,000	.....	.....	.....	.....
" "	5	1887	177,000	April & Oct.	1-157	.....	.....	177,000	.....	.....	.....
" "	5	1887	88,000	"	1-154	.....	.....	88,000	.....	.....	.....
" "	5	1888	29,000	"	2-74	.....	.....	.....	29,000	.....	.....
" "	5	1889	39,000	"	2-78	.....	.....	.....	.....	39,000	.....
" "	5	1889	100,000	May & Nov.	2-75	.....	.....	.....	.....	100,000	.....
" "	4	1889	46,000	April & Oct.	2-80	.....	.....	.....	.....	.....	46,000
" "	5	1891	127,000	"	8-30	.....	.....	.....	127,000	.....	.....
" "	4½	1892	217,000	"	8-66	.....	217,000	.....	.....	.....	.....
" "	5	1893	5,000	"	8-106	.....	.....	.....	.....	.....	5,000
" "	5	1893	222,000	"	8-107	.....	.....	.....	.....	.....	222,000
" "	4	1893	100,000	"	8-177	.....	.....	.....	.....	.....	.....
" "	4	1896	276,000	"	9-1	.....	.....	.....	.....	.....	.....
Intercepting Sewers...	4	1896-7	110,000	"	9-79	.....	.....	.....	.....	.....	.....
Park.....	4	1893-7	1,600,000	"	8-141	.....	.....	.....	.....	.....	.....
Police Station.....	5	1891	20,000	May & Nov.	8-23	.....	.....	.....	.....	20,000	.....
Police Sta. (new Cent'l)	4	1897	100,000	April & Oct.	8-62	.....	.....	.....	.....	.....	.....
River and Harbor.	4	1896-7	250,000	"	9-34	.....	.....	.....	.....	.....	.....
Brookl'n Sew. Dis.No.2	6	1889	6,000	Mar.&Sept.	.....	.....	600	600	.....	.....	.....
Brookl'n Sew. Dis No.3	6	1893	12,250	"	.....	.....	3,250	.....	.....	.....	.....
Brookl'n Gen. Ref'd'ng	6	1890	20,150	"	.....	.....	850	2,800	1,700	1,850	.....
Total .....	.....	.....	.....	.....	.....	\$400,000	\$519,700	\$393,400	\$277,700	\$395,850	\$503,000

TABLE No. 45.—Concluded.
LIABILITIES IN DETAIL.
OF THE CITY OF CLEVELAND OUTSTANDING DECEMBER 31,
ING AS FOLLOWS :

1903	1904	1906	1907	1916	1917	1921	1923	1924	1926	1927	Totals.
\$635,000	\$382,000	\$ 45,000	\$215,000	\$.....	\$.....	\$.....	\$.....	\$.....	\$249,000	\$.....	\$2,706,000
157,000											150,000
											11,000
											100,000
147,000											147,000
											117,000
											177,000
											88,000
											29,000
											39,000
											100,000
											46,000
											127,000
											217,000
											5,000
											222,000
	100,000										100,000
				276,000							276,000
						200,000			110,000		310,000
							500,000	500,000		600,000	1,600,000
											20,000
					100,000						100,000
								500,000			500,000
											1,200
											3,250
											7,200
\$982,000	\$482,000	\$ 45,000	\$215,000	\$276,000	\$100,000	\$200,000	\$500,000	\$500,000	\$859,000	\$600,000	\$7,198,650

TABLE No. 46.

LIABILITIES IN DETAIL.

STATEMENT SHOWING AMOUNT OF STREET
BER 31, 1897, AND MA-

G. R.	Class of Bonds.	Rate of Interest.	Amount of original issue.	Date of original issue.
498	Walworth opening.....	4	\$100,000	1890
2134	Denison paving.....	6	13,250	1893
1932	Detroit paving.....	6	30,000	1892
1933	Detroit paving.....	6	20,000	1893
2108	Greenwood paving.....	6	12,000	1891
2459	Newburgh paving.....	6	10,050	1892
2457	Fish paving.....	6	32,400	1891
2121	Eagle sewer.....	6	450	1893
2166	Terrace sewer.....	6	700	1894
2122	Eagle water pipe..	6	600	1893
2126	Newburgh, Rhodes and Greenwood water..	6	2,000	1893
2130	Ralph water pipe.....	6	450	1893
2107	Greenwood water pipe....	6	2,000	1894
	Totals .....	.....	.....	.....

TABLE NO. 46.

LIABILITIES IN DETAIL.

IMPROVEMENT BONDS OUTSTANDING DECEMBER-
TURING AS FOLLOWS:

MATURITY.								Totals.
1898	1899	1900	1901	1902	1903	1904	1905	
\$ 10,000	\$ 10,000	\$ 10,000	.....	.....	.....	.....	.....	\$ 30,000 00
1,200	1,200	1,200	1,200	1,200	1,200	1,200	.....	8,400 00
3,000	3,000	3,000	3,000	3,000	.....	.....	.....	15,000 00
2,000	2,000	2,000	2,000	2,000	.....	.....	.....	10,000 00
1,130	1,130	1,130	1,130	700	.....	.....	.....	5,220 00
1,000	1,000	1,000	1,000	1,050	.....	.....	.....	5,050 00
2,800	2,800	2,800	4,800	2,800	2,800	2,800	2,800	24,400 00
90	.....	.....	.....	.....	.....	.....	.....	90 00
140	140	.....	.....	.....	.....	.....	.....	280 00
120	.....	.....	.....	.....	.....	.....	.....	120 00
400	.....	.....	.....	.....	.....	.....	.....	400 00
90	.....	.....	.....	.....	.....	.....	.....	90 00
400	400	.....	.....	.....	.....	.....	.....	800 00
\$ 22,370	\$ 21,670	\$ 21,130	\$ 13,130	\$ 10,750	\$4,000	\$4,000	\$2,800	\$ 99,850 00

TABLE No. 47.
LIABILITIES IN DETAIL.
STATEMENT SHOWING AMOUNT OF SEWER DISTRICT BONDS

Class of Bonds.			Rate of Interest.	Numbers of Bonds.	1898		1899		1900		1901		1902	
					Apr.	Oct.	Apr.	Oct.	Apr.	Oct.	Apr.	Oct.	Apr.	Oct.
Sewer District No.	3.....	5		3589 to 3594	\$.....	\$ 6,000	.....	\$.....	.....	\$.....	\$.....			\$.....
"	3.....	5		3595 to 3601	.....	7,000	.....	.....	.....	.....	.....			.....
"	3.....	5		3602 to 3623	.....	22,000	.....	.....	.....	.....	.....			.....
"	3.....	4		9162 to 9175	.....	.....	.....	.....	.....	.....	.....			.....
"	4.....	4		5276 to 5318	.....	.....	.....	.....	.....	20,000	.....			.....
"	4.....	4		7753 to 7760	.....	.....	.....	.....	.....	.....	8,000			.....
"	4.....	4		8962 to 9011	.....	.....	.....	.....	.....	.....	.....			.....
"	5.....	4		7722 to 7726	.....	.....	.....	.....	.....	.....	5,000			.....
"	5.....	4		8942 to 8961	.....	.....	.....	.....	.....	.....	.....			.....
"	5.....	4		9012 to 9018	.....	.....	.....	.....	.....	.....	.....			.....
"	7.....	5		5274	.....	10,000	.....	.....	.....	.....	.....			.....
"	10.....	5		1970 to 1971	.....	.....	.....	.....	.....	.....	.....			2,000
"	10.....	5		568 to 577	.....	1,000	.....	1,000	.....	1,000	.....	1,000		2,000
"	10.....	5		2819 to 2820	.....	.....	.....	.....	.....	.....	.....			2,000
"	11.....	4		9019 to 9053	.....	.....	.....	.....	.....	.....	.....			.....
"	12.....	4		9054 to 9103	.....	.....	.....	.....	.....	.....	.....			.....
"	13.....	4		7549 to 7611	.....	.....	.....	.....	.....	.....	20,000			.....
"	14.....	4		7730 to 7752	.....	.....	.....	.....	.....	.....	.....			.....
"	14.....	5		616 to 637	.....	2,000	.....	2,000	.....	4,000	.....			.....
"	14.....	4		9176 to 9188	.....	.....	.....	.....	.....	.....	.....			.....
"	14.....	4		9201 to 9230	.....	.....	.....	.....	.....	.....	.....			.....
"	15.....	4 1/2		217 to 245	.....	29,000	.....	.....	.....	.....	.....			.....
"	15.....	5		548 to 567	.....	.....	.....	20,000	.....	.....	.....			.....
"	15.....	5		578 to 585	.....	.....	.....	8,000	.....	.....	.....			.....
"	15.....	5		638 to 689	.....	.....	.....	.....	.....	52,000	.....			.....
"	15.....	5		919 to 946	.....	.....	.....	.....	.....	28,000	.....			.....
"	15.....	5		1000 to 1010	.....	.....	.....	.....	.....	11,000	.....			.....
"	15.....	5		1585 to 1611	.....	.....	.....	.....	.....	.....	27,000			.....
"	15.....	4		5024 to 5073	.....	.....	.....	.....	.....	.....	.....			50,000
"	15.....	4		5319 to 5388	.....	.....	.....	.....	.....	.....	.....			.....
"	16.....	4		5405 to 5428	.....	.....	.....	.....	.....	10,000	.....			.....
"	16.....	5		3055 to 3056	.....	.....	.....	.....	.....	.....	.....			2,000
"	16.....	5		2802 to 2818	.....	8,000	.....	9,000	.....	.....	.....			.....
"	16.....	4		9104 to 9154	.....	.....	.....	.....	.....	.....	.....			.....
"	16.....	4		9189 to 9200	.....	.....	.....	.....	.....	.....	.....			.....
"	17.....	5		2821 to 2832	2,000	2,000	.....	.....	.....	.....	.....			.....
"	17.....	4		5389 to 5404	.....	.....	.....	.....	.....	.....	.....			.....
"	17.....	4		7727 to 7729	.....	.....	.....	.....	.....	.....	3,000			.....
"	18.....	5		732 to 761	.....	5,000	.....	5,000	.....	10,000	.....			.....
"	18.....	5		5275	.....	.....	.....	.....	.....	.....	4,000			.....
"	18.....	4		7784 to 7795	.....	.....	.....	.....	.....	.....	.....			6,000
"	18.....	4		8046 to 8051	.....	.....	.....	.....	.....	.....	.....			.....
"	18.....	4		9231 to 9233	.....	.....	.....	.....	.....	.....	.....			.....
"	19.....	4		7761 to 7783	.....	.....	.....	.....	.....	.....	.....			.....
"	21.....	4		9155 to 9161	.....	.....	.....	.....	.....	.....	.....			.....
					\$2,000	\$92,000	.....	\$45,000	.....	\$106,000	\$30,000	\$68,000	.....	\$62,000

TABLE No. 47.
LIABILITIES IN DETAIL.

OUTSTANDING DECEMBER 31, 1897, AND MATURING AS FOLLOWS:

1903		1904		1905		1906		1907		1916		1917		Total.
Apr.	Oct.	Apr.	Oct.	Apr.	Oct.	Apr.	Oct.	Apr.	Oct.	Apr.	Oct.	Apr.	Oct.	
\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$..	\$ 6,000 00
.....	7,000 00
.....	22,000 00
.....	14,000	.....	.....	.....	.....	14,000 00
.....	23,000	.....	.....	.....	.....	.....	.....	.....	43,000 00
.....	8,000 00
.....	50,000	.....	.....	.....	.....	50,000 00
.....	5,000 00
.....	20,000	.....	.....	.....	.....	20,000 00
.....	7,000	.....	.....	.....	.....	7,000 00
.....	10,000 00
.....	2,000 00
.....	4,000 00
.....	2,000 00
.....	35,000	.....	.....	.....	.....	35,000 00
.....	50,000	.....	.....	.....	.....	50,000 00
.....	20,000	.....	.....	.....	23,000	.....	.....	.....	.....	.....	.....	.....	.....	63,000 00
.....	23,000	.....	.....	.....	.....	.....	.....	23,000 00
.....	8,000 00
.....	13,000	.....	.....	.....	.....	13,000 00
.....	30,000	.....	30,000 00
.....	29,000 00
.....	20,000 00
.....	8,000 00
.....	52,000 00
.....	28,000 00
.....	11,000 00
.....	27,000 00
.....	50,000 00
25,000	20,000	.....	.....	.....	25,000	.....	.....	.....	.....	.....	.....	.....	70,000 00
.....	14,000	.....	.....	.....	.....	.....	.....	.....	24,000 00
.....	2,000 00
.....	17,000 00
.....	51,000	.....	.....	.....	.....	51,000 00
.....	12,000	.....	.....	.....	.....	12,000 00
.....	4,000 00
.....	16,000	.....	.....	.....	.....	.....	.....	.....	16,000 00
.....	3,000 00
.....	20,000 00
.....	4,000 00
.....	6,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12,000 00
.....	6,000	.....	.....	.....	.....	.....	.....	6,000 00
.....	3,000	.....	.....	.....	.....	3,000 00
.....	23,000	.....	.....	23,000 00
.....	7,000	.....	.....	.....	.....	7,000 00
\$25,000	\$26,000	\$20,000	.....	.....	\$23,000	\$78,000	\$29,000	.....	\$262,000	.....	\$23,000	.....	\$30,000	\$921,000 00

LIABILITIES IN DETAIL.

TABLE NO. 48.

STATEMENT SHOWING THE AMOUNT OF WATER
STANDING DEC. 31, 1897,

Class of Bonds.	Rate per cent.	Date of Original Issue.	Amount of Original Issue,	Months when Principal and Interest are due.
Water Works.....	3 1/4	1882	100,000	March and September
“	4	1883	100,000	January and July
“	4	1897	500,000	April and October
“	6	1885	275,000	March and September
“	4 1/2	1892	400,000	April and October
“	4	1893	200,000	“
“	4	1895	200,000	“
“	4	1896	300,000	“
“	6	1893	12,000	January and July
Total.....				

LIABILITIES IN DETAIL.

TABLE No. 48.

WORKS BONDS OF THE CITY OF CLEVELAND OUT-MATURING AS FOLLOWS:

Record number and Page.	1900	1902	1903	1905	1917	1926	TOTAL.
3-74	\$.....	\$100,000	\$.....	\$.....	\$.....	\$.....	\$ 100,000
2-40	.....	.....	100,000	.....	.....	.....	100,000
2-44	.....	.....	.....	.....	500,000	.....	500,000
2-62	275,000	.....	.....	.....	.....	.....	275,000
8-43	.....	400,000	.....	.....	.....	.....	400,000
8-99	.....	.....	200,000	.....	.....	.....	200,000
8-188	.....	.....	.....	200,000	.....	.....	200,000
9-12	.....	.....	.....	.....	.....	300,000	300,000
Brooklyn	.....	.....	12,000	.....	.....	.....	12,000
.....	\$275,000	\$500,000	\$312,000	\$200,000	\$500,000	\$300,000	\$2,087,000

TABLE No. 49.
MATURITY OF PRINCIPAL AND INTEREST.
LIABILITIES IN DETAIL.

Year.	Month.	Bonds.	Interest on Bonds.	Notes.	Interest on Notes.	Total for Month.	Total for Year.
1898	January.....	\$.....	\$ 7,860 00	\$.....	\$.....	\$ 7,860 00	\$.....
"	February.....	.....	300 00	.....	.....	300 00	.....
"	March.....	100,000 00	17,310 00	.....	.....	117,310 00	.....
"	April.....	7,000 00	165,685 00	.....	.....	172,685 00	.....
"	May.....	.....	10,230 00	152,821 00	17,553 61	180,604 61	.....
"	June.....	300,000 00	23,175 00	.....	.....	323,175 00	.....
"	July.....	.....	8,760 00	.....	.....	8,760 00	.....
"	August.....	2,000 00	300 00	.....	.....	2,300 00	.....
"	September.....	129,070 00	14,310 00	.....	.....	143,380 00	.....
"	October.....	217,000 00	165,580 00	.....	.....	482,580 00	.....
"	November.....	181,000 00	10,230 00	153,311 00	12,729 29	357,270 29	.....
"	December.....	.....	14,175 00	.....	.....	14,175 00	1,810,399 90
1899	January.....	.....	7,860 00	.....	.....	7,860 00	.....
"	February.....	.....	240 00	.....	.....	240 00	.....
"	March.....	.....	11,607 90	.....	.....	11,607 90	.....

TABLE No. 49—Continued.

Year.	Month.	Bonds.	Interest on Bonds.	Notes.	Interest on Notes.	Total for Month.	Total for Year.
1899	April	\$ 5,000 00	\$ 154,665 00	\$	\$	\$ 159,665 00	\$
"	May .....	.....	4,800 00	111,105 00	8,896 50	124,801 50	.....
"	June.. ..	.....	14,175 00	.....	.....	14,175 00	.....
"	July .....	.....	8,580 00	.....	.....	8,580 00	.....
"	August	2,000 00	240 00	.....	.....	2,240 00	.....
"	September.....	10,070 00	11,607 90	.....	.....	21,677 90	.....
"	October.....	443,000 00	164,250 00	.....	.....	607,250 00	.....
"	November.....	.....	4,800 00	111,595 00	6,118 89	122,513 89	.....
"	December.....	.....	14,175 00	.....	.....	14,175 00	1,094,786 19
1900	January .....	.....	7,860 00	.....	.....	7,860 00	.....
"	February .....	.....	180 00	.....	.....	180 00	.....
"	March	285,000 00	11,305 80	.....	.....	296,305 80	.....
"	April	5,000 00	151,380 00	.....	.....	156,380 00	.....
"	May	30,000 00	4,800 00	32,355	3,329	70,484 00	.....
"	June.....	.....	14,175 00	.....	.....	14,175 00	.....
"	July .....	.....	8,400 00	.....	.....	8,400 00	.....
"	August	2,000 00	180 00	.....	.....	2,180 00	.....
"	September.....	7,830 00	2,855 80	.....	.....	10,685 80	.....

DEPARTMENT OF ACCOUNTS.

TABLE No. 49—Continued.

Year.	Month.	Bonds.	Interest on Bonds.	Notes.	Interest on Notes.	Total for Month.	Total for Year.
1900	October.....	\$ 350,000 00	\$ 151,325 00	\$	\$	\$ 501,325 00	\$
"	November.....	.....	4,200 00	32,355 00	2,520 10	39,075 10	.....
"	December.....	.....	14,175 00	.....	.....	14,175 00	1,121,225 70
1901	January.....	175,000 00	7,860 00	.....	.....	182,860 00	.....
"	February.....	.....	120 00	.....	.....	120 00	.....
"	March.....	.....	2,620 90	.....	.....	2,620 90	.....
"	April.....	30,000 00	142,930 00	.....	.....	172,930 00	.....
"	May.....	80,000 00	4,200 00	29,355 00	1,711 20	115,266 20	.....
"	June.....	.....	14,175 00	.....	.....	14,175 00	.....
"	July.....	.....	4,720 00	.....	.....	4,720 00	.....
"	August.....	2,000 00	120 00	.....	.....	2,120 00	.....
"	September.....	9,980 00	2,620 90	.....	.....	12,600 90	.....
"	October.....	110,000 00	142,375 00	.....	.....	252,375 00	.....
"	November.....	100,000 00	2,500 00	29,355 00	977 35	132,832 35	.....
"	December.....	.....	14,175 00	.....	.....	14,175 00	906,795 35
1902	January.....	.....	4,360 00	.....	.....	4,360 00	.....
"	February.....	.....	60 00	.....	.....	60 00	.....
"	March.....	.....	2,321 50	.....	.....	2,321 50	.....

TABLE No. 49--Continued.

Year.	Month.	Bonds.	Interest on Bonds.	Notes.	Interest on Notes.	Total for Month.	Total for Year.
1902	April	446,000 00	139,835 00	.....	.....	585,835 00	.....
"	May .....	.....	.....	4,870 00	243 50	5,113 50	.....
"	June .....	.....	14,175 00	.....	.....	14,175 00	.....
"	July .....	.....	4,540 00	.....	.....	4,540 00	.....
"	August	2,000 00	60 00	.....	.....	2,060 00	.....
"	September	105,750 00	2,321 50	.....	.....	108,071 50	.....
"	October	522,000 00	129,960 00	.....	.....	651,960 00	.....
"	November .....	.....	.....	4,870 00	121 75	4,991 75	.....
"	December .....	.....	14,175 00	.....	.....	14,175	1,397,663 25
1903	January ...	200,000 00	4,360 00	.....	.....	204,360 00	.....
"	March .....	.....	324 00	.....	.....	324 00	.....
"	April	225,000 00	113,870 00	.....	.....	338,870 00	.....
"	June	225,000 00	14,175 00	.....	.....	239,175 00	.....
"	July	12,000 00	360 00	.....	.....	12,360 00	.....
"	September	4,000 00	324 00	.....	.....	4,324 00	.....
"	October	633,000 00	113,370 00	.....	.....	746,370 00	.....
"	December .....	.....	8,925 00	.....	.....	8,925 00	1,554,708 00
1904	March .....	.....	204 00	.....	.....	204 00	.....

DEPARTMENT OF ACCOUNTS.

TABLE NO. 49—Continued.

Year.	Month.	Bonds.	Interest on Bonds.	Notes.	Interest on Notes.	Total for Month.	Total for Year.
1904	April	\$ 120,000 00	\$ 97,700 00	\$.....	\$.....	\$ 217,700 00	\$.....
"	June.....	232,000 00	8,925 00	.....	.....	240,925 00	.....
"	September.....	4,000 00	204,00	.....	.....	4,204 00	.....
"	October.....	150,000 00	95,300 00	.....	.....	245,300 00	.....
"	December.....	.....	3,125 00	.....	.....	3,125 00	711,458 00
1905	March .....	.....	84 00	.....	.....	84 00	.....
"	April .....	.....	92,300 00	.....	.....	92,300 00	.....
"	June.....	.....	3,125 00	.....	.....	3,125 00	.....
"	September.....	2,800 00	84 00	.....	.....	2,884 00	.....
"	October.....	223,000 00	92,300 00	.....	.....	315,300 00	.....
"	December .....	.....	3,125 00	.....	.....	3,125 00	416,818 00
1906	April	78,000 00	87,840 00	.....	.....	165,840 00	.....
"	June.....	.....	3,125 00	.....	.....	3,125 00	.....
"	October.	74,000 00	86,280 00	.....	.....	160,280 00	.....
"	December.....	.....	3,125 00	.....	.....	3,125 00	332,370 00
1907	April .....	.....	84,800 00	.....	.....	84,800 00	.....
"	June.....	125,000 00	3,125 00	.....	.....	128,125 00	.....
"	October.....	352,000 00	84,800 00	.....	.....	436,800 00	649,725 00

TABLE NO. 49—Continued.

DEPARTMENT OF ACCOUNTS.							
Year.	Month.	Bonds.	Interest on Bonds.	Notes.	Interest on Notes.	Total for Month.	Total for Year.
1908	April	\$	\$ 77,760 00	\$	\$	77,760 00	\$
"	October.....	.....	77,760 00	.....	.....	77,760 00	155,520 00
1909	April .....	.....	77,760 00	.....	.....	77,760 00	.....
"	October.....	.....	77,760 00	.....	.....	77,760 00	155,520 00
1910	April .....	.....	77,760 00	.....	.....	77,760 00	.....
"	October.....	.....	77,760 00	.....	.....	77,760 00	155,520 00
1911	April .....	.....	77,760 00	.....	.....	77,760 00	.....
"	October.....	.....	77,760 00	.....	.....	77,760 00	155,520 00
1912	April .....	.....	77,760 00	.....	.....	77,760 00	.....
"	October.....	.....	77,760 00	.....	.....	77,760 00	155,520 00
1913	April .....	.....	77,760 00	.....	.....	77,760 00	.....
"	October.....	.....	77,760 00	.....	.....	77,760 00	155,520 00
1914	April .....	.....	77,760 00	.....	.....	77,760 00	.....
"	October.....	.....	77,760 00	.....	.....	77,760 00	155,520 00
1915	April .....	.....	77,760 00	.....	.....	77,760 00	.....
"	October.....	.....	77,760 00	.....	.....	77,760 00	155,520 00
1916	April .....	.....	77,760 00	.....	.....	77,760 00	.....
"	October.....	299,000 00	77,760 00	.....	.....	376,760 00	454,520 00

TABLE No. 49—Continued.

Year.	Month.	Bonds.	Interest on Bonds.	Notes.	Interest on Notes.	Total for Month.	Total for Year.
1917	April	\$ 600,000 00	\$ 71,780 00	\$	\$	\$ 671,780 00	\$
"	October	30,000 00	59 780 00	.....	.....	89,780 00	761,560 00
1918	April .....	.....	59,180 00	.....	.....	59,180 00	.....
"	October .....	.....	59,180 00	.....	.....	59,180 00	118,360 00
1919	April .....	.....	59,180 00	.....	.....	59,180 00	.....
"	October .....	.....	59,180 00	.....	.....	59,180 00	118,360 00
1920	April .....	.....	59,180 00	.....	.....	59,180 00	.....
"	October .....	.....	59,180 00	.....	.....	59,180 00	118,360 00
1921	April .....	.....	59,180 00	.....	.....	59,180 00	.....
"	October	200,000 00	59,180 00	.....	.....	259,180 00	318,560 00
1922	April .....	.....	55,180 00	.....	.....	55,180 00	.....
"	October .....	.....	55,180 00	.....	.....	55,180 00	110,360 00
1923	April .....	.....	55,180 00	.....	.....	55,180 00	.....
"	October	500,000 00	55,180 00	.....	.....	555,180 00	610,360 00
1924	April	500,000 00	45,180 00	.....	.....	545,180 00	.....
"	October .....	.....	35,180 00	.....	.....	35,180 00	580,360 00
1925	April .....	.....	35,180 00	.....	.....	35,180 00	.....
"	October .....	.....	35,180 00	.....	.....	35,180 00	70,360 00

TABLE NO. 49—Concluded.

Year.	Month.	Bonds.	Interest on Bonds.	Notes.	Interest on Notes.	Total for Month.	Total for Year.
1926	April	\$.....	\$ 35,180 00	.....	\$.....	\$ 35,180 00	\$.....
"	October.....	1,159,000 00	35,180 00	.....	.....	1,194,180 00	1,229,360 00
1927	April	600,000 00	12,000 00	.....	.....	612,000 00	612,000 00
	Total	\$10,306,500 00	\$ 5,319,738 20	\$ 661,992 00	\$ 54,201 19	\$ 16,342,429 39	\$ 16,342,429 39

TABLE No. 50.
LIABILITIES IN DETAIL.
NOTES.

(For condensed statement of liabilities, see table No. 2.)
(For comparison with former years, see table No. 144.)

Numbers of Notes.	Rate.	MATURITY.										Totals.
		1898.		1899.		1900.		1901.		1902.		
		May.	Nov.	May.	Nov.	May.	Nov.	May.	Nov.	May.	Nov.	
777- 778	5	\$ 13,980	\$ 13,980	.....	.....	.....	.....	.....	.....	.....	.....	\$ 27,960
814- 815	5	5,570	5,570	.....	.....	.....	.....	.....	.....	.....	.....	11,140
822- 823	5	4,870	4,870	.....	.....	.....	.....	.....	.....	.....	.....	9,740
838- 839	5	1,450	1,450	.....	.....	.....	.....	.....	.....	.....	.....	2,900
845- 848	5	23,250	23,250	22,790	22,790	.....	.....	.....	.....	.....	.....	92,080
853- 856	5	14,620	14,620	14,010	14,010	.....	.....	.....	.....	.....	.....	57,260
863- 866	5	7,350	7,350	7,350	7,350	.....	.....	.....	.....	.....	.....	29,400
869- 870	5	.....	490	.....	490	.....	.....	.....	.....	.....	.....	980
876- 877	5	634	634	.....	.....	.....	.....	.....	.....	.....	.....	1,268
881- 882	5	1,840	1,840	.....	.....	.....	.....	.....	.....	.....	.....	3,680
886- 889	5	12,584	12,584	7,710	7,710	.....	.....	.....	.....	.....	.....	40,588
893- 894	5	3,390	3,390	.....	.....	.....	.....	.....	.....	.....	.....	6,780
898- 899	5	978	978	.....	.....	.....	.....	.....	.....	.....	.....	1,956
902- 905	5	60	60	60	60	.....	.....	.....	.....	.....	.....	240
908- 909	5	1,250	1,250	.....	.....	.....	.....	.....	.....	.....	.....	2,500
912- 919	5	260	260	260	260	260	260	260	260	.....	.....	2,080
922- 925	5	325	325	325	325	.....	.....	.....	.....	.....	.....	1,300
928- 935	5	2,200	2,200	2,200	2,200	1,500	1,500	1,500	1,500	.....	.....	14,800
938- 939	5	300	300	.....	.....	.....	.....	.....	.....	.....	.....	600
942- 949	5	4,900	4,900	4,900	4,900	4,900	4,900	4,900	4,900	.....	.....	39,200
952- 959	5	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	.....	.....	13,600
962- 965	5	3,000	3,000	3,000	3,000	.....	.....	.....	.....	.....	.....	12,000
968- 969	5	440	440	.....	.....	.....	.....	.....	.....	.....	.....	880
972- 975	5	900	900	900	900	.....	.....	.....	.....	.....	.....	3,600
977- 980	5	8,480	8,480	7,770	7,770	.....	.....	.....	.....	.....	.....	32,500
982- 985	5	1,490	1,490	1,340	1,340	.....	.....	.....	.....	.....	.....	5,660
987- 994	5	6,100	6,100	6,100	6,100	4,350	4,350	4,350	4,350	.....	.....	41,800
996-1003	5	3,790	3,790	3,680	3,680	1,780	1,780	1,780	1,780	.....	.....	22,060
1005-1012	5	4,865	4,865	4,865	4,865	3,520	3,520	3,520	3,520	.....	.....	33,540
1014-1021	5	1,980	1,980	1,980	1,980	1,500	1,500	1,500	1,500	.....	.....	13,920
1023-1032	5	1,520	1,520	1,520	1,520	950	950	950	950	250	250	10,380
1033-1038	5	1,575	1,575	1,475	1,475	200	200	.....	.....	.....	.....	6,500
1039-1048	5	13,720	13,720	13,720	13,720	8,745	8,745	8,495	8,495	4,620	4,620	98,600
1049-1056	5	3,000	3,000	3,000	3,000	2,500	2,500	400	400	.....	.....	17,800
1057-1062	5	450	450	450	450	450	450	.....	.....	.....	.....	2,700
Totals ...	.....	\$152,821	\$153,311	\$111,105	\$111,595	\$32,355	\$32,355	\$29,355	\$29,355	\$4,870	\$4,870	\$661,992

TABLE NO. 51.

LIABILITIES IN DETAIL.

DEPOSITS.

(For condensed statement of liabilities, see table No. 2.)

A rule of the Water Works Division requires a deposit of \$1.00 for each foot of pipe laid at the request of the property owners in streets where the estimated revenue therefrom will not pay 8 per cent. per annum upon the cost of the pipe. When the revenue reaches an amount equal to 8 per cent. per annum the deposit is returned to the depositor. At the close of business on December 31st, 1897, there was on deposit under said rule \$26,450.78 as follows :

Name.	Street.	Amount.
H. P. McIntosh	Handy.....	\$ 1,082 98
Elvra R. Cory	Cable	774 67
Samuel Mather.....	Bellflower	600 00
W. J. Gordon.	Bridge.....	600 00
Geo. E. Hartnell.....	Keil	500 00
Geo. E. Hartnell.....	Kiel	60 00
J. S. Hartze l.....	Sadie.....	194 00
W. F. Hoppensack	Hoppensack, Justus.....	520 00
Josephine B. Purcell and } S. B. Weaver.....	Berghoff.....	600 00
W. C. Scofield	Ezra.....	620 00
Curtiss & Ambler.....	Superior.....	450 00
Lewis Beckman.. ..	Ebert.....	778 00
H. P. McIntosh.....	Perkins.....	362 98
Curtiss & Ambler.....	Adrian.....	1,000 00
W. C. Scofield.....	Ezra	50 00
Louisa J. Roberts.....	Commonwealth.....	336 00
W. J. Gordon estate.....	Ellen	835 00
J. H. Brown and R. M. Parmely	Edge Hill, Overlook.....	1,085 70
Holmes Marshall, adm'r.....	Shale.....	770 00
Chas. M. Mix.....	Helm.....	2,360 04
Chas. Raid	Elsa Place.....	190 00
Mathilda E. B. Junge.....	Elsa Place.....	190 00
Louisa M. Roberts.....	Commonwealth.....	100 00
Dr. F. L. Thompson.....	East View.....	820 00
H. C. Bauman.....	Morton	610 41
L. A. Cobb.....	Prescott	2,418 00
L. A. Cobb	Matley.....	2,418 00
E. W. Andrews.....	Duluth	325 00
Theo. Kundtz.....	Winslow, Center, Elm.....	800 00
Total Water Works deposits		\$21,450 78
Art Gallery fund (see table No. 108).....		5,000 00
Total deposits.....		\$26,450 78

PART III.

THE FUNDS.

TABLE No. 52.

GENERAL (ADMINISTRATION) FUND CLASSIFIED
ANALYSIS.(For itemized analysis, see table No. 53, and for local account, see tables
No. 54 to No. 62, inclusive.)

Cash on hand January 1st, 1897.....		\$ 11,225 53
RECEIPTS.		
Received from general tax.....	\$ 114,133 43	
Received from special assessment.....	2,361 25	
Received from liquor tax.....	145,694 19	
Received from licenses.....	3,524 00	
Total tax.....		\$265,712 87
Received from rents.....	\$ 7,876 27	
Received from fees.....	10,482 66	
Received from reimbursements.....	9,304 72	
Total earnings.....		27,663 65
Received from transfer.....		3,000 00
Total receipts.....		\$296,376 52
Total to be accounted for.....		\$307,602 05
DISBURSEMENTS.		
Paid fixed charges.....	\$246,061 10	
Paid for supplies.....	47,037 71	
Total operating expenses.....		\$293,098 81
Paid for office furniture.....	\$1,678 62	
Paid for street signs.....	4,517 00	
Total furniture and fixtures.....		\$ 6,195 62
Total disbursements.....		299,294 43
Cash on hand January 1, 1898.....		\$8,307 62
ASSETS.		
Cash..		\$8,307 62
Office furniture (table No.37).....		45,987 13
Street signs.....		4,517 00
Total assets.....		\$58,811 75
LIABILITIES.		
No liabilities.....		.....
Excess of assets.....		\$58,811 75

TABLE NO. 53.

GENERAL (ADMINISTRATION) FUND—ITEMIZED ANALYSIS.

(For classified analysis, see table No. 52, and for local account, see tables Nos. 54 to 62 inclusive.)

Cash on hand January 1, 1897.....	\$ 11,225 53
Received from general levy of 84 cents on each \$1,000 on the tax duplicate of 1896	114,133 43
Received from 2¼-10 of liquor tax collection.....	145,694 19
Received from special assessments for sewer and water connections.....	2,361 25
Received from 1,393 stationary engineers' and firemen's licenses.....	559 00
Received from 66 theater and exhibition licenses.....	999 00
Received from 277 express wagon and moving van licenses.....	831 00
Received from 2 cab licenses.....	10 00
Received from 20 pawnbrokers' licenses.....	1,000 00
Received from 2 ferry licenses.....	20 00
Received from 5 transient dealers' licenses.....	105 00
Received from City Hall rents.....	7,876 27
Received from Justice of the Peace fees.....	10,482 66
Received from Clev. Ter. and Valley Ry. for vacation of Short and Vineyard streets.....	4,600 00
Received from reimbursements from street improvement funds, on account of printing charges.....	5,304 72
Received from Sidewalk Fund for reimbursement for printing charges.....	3,000 00
Total to be accounted for.....	307,602 05
Total disbursements as below.....	299,294 43
Cash on hand January 1, 1898.....	8,307 62

DISBURSEMENTS IN DETAIL.

See Table No.		Paid on account of	Fixed Charges.	Supplies.	Furniture.	Total.
54	B I L L C H J	ntrol.....	\$ 34,940 00	\$ 6,308 07	\$ 74 00	\$ 41,322 67
55		locks.....	118,223 25	13,456 21	5,325 45	137,004 91
56		s.....	15,845 00	3,735 42	100 00	19,680 42
57		.....	9,591 65	3,825 17	211 25	13,628 08
58		s and Cor'n	1,000 00	248 33	17 75	1,226 08
59		.....	15,400 00	15,674 90	312 20	31,387 10
60		.....	8,500 00	559 33	.....	9,059 33
61		.....	17,061 19	2,439 10	54 85	19,555 14
62		nt.....	25,500 00	801 18	99 52	26,400 70
		Totals	246,061 10	47,037 71	6,195 62	299,294 43

TABLE NO. 54.

THE GENERAL FUND—DISBURSEMENTS ON THE ORDER OF THE MAYOR.

(For more condensed statement, see tables Nos. 52 and 53.)

Paid salaries of Mayor, the Directors of the several departments, the Mayor's Secretary and the Assistant Clerks of the Board of Control.....	\$34,940 00
Paid for advertising and stationery for the use of the Mayor and Board of Control.....	\$ 365 03
Paid general contingent expenses of the city*.....	5,943 04
Total supplies.	6,308 07
Paid for furniture and fixtures for Mayor's and Board of Control offices.....	74 60
Total disbursements.....	\$41,322 67

*The above "Contingent Expenses" consisted of the following items:

Mayfield Plank Road Co., vacation of road.....	\$1,750 00
Phillips & Lawrence, services as attorneys in Lake Front cases.....	2,000 00
Jos. Quinn, bounty.....	100 00
David Archer, bounty.....	100 00
Mandelbaum Bros. & Co., damages.....	26 67
Mrs. E. Sanford, damages.....	65 00
Official advertising.....	235 23
City flags.....	176 88
Secret service.....	449 59
Abstracts.....	480 00
Cleaning, papering and repairs.....	317 08
Printing annual report, telegrams, and express charges.....	242 59

TABLE NO. 55.

THE GENERAL FUND. — DISBURSEMENTS ON THE ORDER OF THE DIRECTOR OF PUBLIC WORKS.

(For more condensed statement, see tables Nos. 52 and 53.)

Paid salaries of Deputy and Clerks in the office of the Director of Public Works.....	\$ 5,680 32	
Paid salaries of Chief Engineer and assistants.....	58,337 91	
Paid salaries of City Hall employes.....	7,148 08	
Paid salaries of Armory employes.....	3,420 00	
Paid salaries of Harbor Master and clerk.....	1,426 61	
Paid rent and taxes on City Hall	42,210 33	
Total fixed charges.....		\$118,223 25
Paid stationery and miscellaneous supplies for office of the Director of Public Works.....	\$ 473 63	
Paid for official advertising by the Director of Public Works.....	1,339 23	
Paid for stationery and miscellaneous supplies for Chief Engineer's office.....	3,207 05	
Paid for sewer and water connections.....	498 32	
Paid for contingent expenses of Public Works office.....	93 95	
Paid for fuel and light for City Hall.....	4,384 17	
Paid for City Hall repairs.....	2,499 86	
Paid for City Hall supplies.....	990 00	
Total supplies.....		13,486 21
Paid for furniture and fixtures in Director of Public Works office....	\$ 19 90	
Paid for furniture, fixtures and implements in Chief Engineer's office.	788 55	
Paid for street signs.....	4,517 00	
Total furniture and fixtures.....		\$5,325 45
Total disbursements.....		\$137,034 91

TABLE No. 56.

THE GENERAL FUND.—DISBURSEMENTS FOR THE
DEPARTMENT OF ACCOUNTS.

(For more condensed statement, see tables Nos. 52 and 53.)

Paid salaries of clerical force.....	\$15,845 00
Paid for stationery and miscellaneous supplies.....	\$2,794 11
Paid commissions for paying city bonds and coupons in New York City.	641 31
Paid for contingent expenses.....	300 00
Total supplies.....	\$3,735 42
Paid for office furniture and fixtures.....	100 00
Total.....	\$19,680 42

TABLE No. 57.

GENERAL FUND.—DISBURSEMENTS FOR THE
DEPARTMENT OF LAW.

(For more condensed statement, see tables Nos. 52 and 53.)

Paid salaries of assistants to Corporation Counsel.....	\$9,591 66
Paid for stationery and miscellaneous supplies.....	\$ 430 10
Paid contingent expenses.....	369 65
Paid costs of court and judgments.....	3,025 42
	<hr/>
Total supplies.....	3,825 17
Paid for furniture and fixtures.....	211 25
	<hr/>
Total disbursements.....	\$13,628 08

TABLE No. 58.

THE GENERAL FUND. — DISBURSEMENTS FOR THE
DEPARTMENT OF CHARITIES AND CORRECTION.

(For more condensed statement, see tables Nos. 52 and 53.)

Paid salary of Secretary.....	\$1,000 00
Paid for stationery and miscellaneous supplies.....	\$139 03
Paid for contingent expenses.....	69 30
Total supplies.....	208 33
Paid for office furniture and fixtures.....	17 75
Total.....	\$1,226 08

TABLE No. 59.

THE GENERAL FUND.—DISBURSEMENTS FOR THE
LEGISLATIVE DEPARTMENT.

(For more condensed statement, see tables Nos. 52 and 53.)

Paid salaries of Councilmen.....	\$5,930 00	
Paid salaries of Council officials.....	9,470 00	
Total fixed charges.....		\$15,400 00
Paid for stationery and miscellaneous supplies.....	2,140 49	
Paid for publishing ordinances, notices and Council proceedings.....	9,599 47	
Paid for serving notices.....	1,492 00	
Paid for contingent expenses.....	2,442 94	
Total supplies....		15,674 90
Paid for furniture and fixtures for clerk's office.....		312 20
Total.....		\$31,387 10

TABLE No. 60.

THE GENERAL FUND.—DISBURSEMENTS FOR THE
CITY TREASURER'S OFFICE.

(For more condensed statement, see tables Nos. 52 and 53.)

Paid salaries of Treasurer and assistants.....	\$8,500 00
Paid for stationery and miscellaneous office supplies.....	559 33
Total.....	\$9,059 33

TABLE No. 61.

**THE GENERAL FUND.—DISBURSEMENTS FOR.
BOARD OF ELECTIONS.***

(For more condensed statement, see tables Nos. 52 and 53.)

Paid salaries of the members of the Board.....	\$2,400 00	
Paid salaries of Secretary and assistants.	2,857 76	
Paid salaries of election officers.....	10,268 00	
Paid for storage and care of booths.....	1,535 43	
Total fixed charges.....		\$17,061 19
Paid for stationery and miscellaneous supplies.....	\$1,800 00	
Paid for fuel and light..	439 10	
Paid for contingent expenses.....	200 00	
Total supplies.....		2,439 10
Paid for office furniture and fixtures.....		54 85
Total.....		\$19,555 14

*The expenses of the Board from July 1st to January 1st are borne by the County of Cuyahoga.

TABLE No. 62.

**THE GENERAL FUND.—DISBURSEMENTS ON ACCOUNT
OF JUSTICES OF THE PEACE, BOARD OF EQUALIZ-
ATION AND FREE EMPLOYMENT BUREAU.**

(For more condensed statement, see tables Nos. 52 and 53.)

Paid salaries of Justices of the Peace and clerks.....	\$14,400 00	
" . office rent for Justices of the Peace.....	1,800 00	
" salaries of Board of Equalization and Assessment.....	7,500 00*	
" salaries of Free Employment Bureau (agency).....	1,800 00†	
Total fixed charges.....		\$25,500 00
Paid for stationery and supplies for Justices of the Peace.....		\$ 801 18
" for Justices of the Peace office furniture and fixtures.....		99 52
Total.....		\$26,400 70

*All other expenses of the Board are paid by Cuyahoga County.

†All other expenses of the Agency are paid by the State of Ohio.

TABLE No. 63.

BRIDGE FUND.—CLASSIFIED ANALYSIS.

(For itemized analysis, see table No. 64, and for local account, see table No. 65.)

Cash on hand January 1st, 1897.....		\$ 86,450 28
RECEIPTS.		
Received from general tax.....	\$77,571 54	
Total taxes.....		\$ 77,571 54
Received from rents.....	3,882 98	
Received from sales.....	109 97	
Total earnings.....		3,992 95
Received from loans.....		334,000 00
Received from transfers....		356,230 00
Total receipts.....		771,794 49
Total to be accounted for.....		\$ 858,244 77
DISBURSEMENTS.		
Paid fixed charges.....	\$193,880 96	
" for supplies.....	21,982 65	
Total operating expenses.....		\$215,863 61
Paid for institution furniture.....	\$ 42 55	
Total furniture and fixtures.....		42 55
Paid for land.....	\$ 78,814 09	
" for construction.....	74,468 52	
Total permanent improvements.....		153,282 61
Paid to redeem bonds.....	315,000 00	
Total loans.....		315,000 00
Total disbursements.....		684,188 77
Cash on hand January 1st, 1898.....		\$ 174,056 00
ASSETS.		
Cash.....	\$174,056 00	
Institution furniture (table No. 38).....	656 55	
Public highways (table No. 41).....	4,101,175 37	
Total assets.....		\$ 4,275,887 92
LIABILITIES.		
Bonds outstanding (table No. 44.).....		1,861,000 00
Excess of assets.....		\$ 2,414,887 92

TABLE NO. 64.

BRIDGE FUND.—ITEMIZED ANALYSIS.

(For classified analysis, see table No. 63—for local account, see table No. 65.)

Cash on hand January 1, 1897.....	\$ 86,450 28
Received from general levy of 32 cents on each \$1,000 on tax duplicate of 1896....	43,479 40
Received from one-half of county levy for bridges (table No. 6).....	34,092 14
Received from C. E. Ry. for rental of Central Viaduct.....	1,500 00
Received from C. E. Ry. for rental of Superior Viaduct.....	300 00
Received from C. E. Ry. for rental of Kingsbury Viaduct.....	300 00
Received from C. C. Ry. for rental of Superior Viaduct.....	752 00
Received from D. Barnhisel for rent of building cor. Main and West River sts...	105 98
Received from Clev'd Ship Bldg. Co. for rent of land under Superior Viaduct....	175 00
Received from N. Y., P. & O. R. R. for rent of land under Superior Viaduct.....	310 00
Received from Norcross Bros. for rent of land under Superior Viaduct.....	305 00
Received from Hunkin Bros. for rent of land under Main St. Bridge.....	60 00
Received from Crangle & Co. for rent of land cor. Center and W. River Sts.....	75 00
Received from various parties for sales of old lumber, iron, etc.....	109 97
Received from sale of bonds.....	331,000 00
Received from transfer from Interest Fund to pay interest on Bridge Bonds....	131,230 00
Received from transfer from Viaduct Skg. Fund to pay Viaduct Bonds.....	225,000 00
Total to be accounted for.....	\$358,244 77
Paid interest on Bridge Bonds.....	\$131,230 00
Paid salaries of bridge tenders and superintendents.....	62,650 96
Total fixed charges.....	\$193,880 96
Paid for fuel, light and sprinkling.....	\$ 1,400 00
Paid for supplies.....	1,032 71
Paid for repairers' materials.....	7,193 39
Paid for repairers' wages.....	11,267 70
Paid for contingent expenses.....	1,088 85
Total supplies.....	\$ 21,982 65
Paid for station furniture.....	\$ 42 55
Paid for purchase of land.....	78,814 09
Paid for construction and reconstruction of bridges.....	74,468 52
Total permanent improvements.....	\$153,282 61
Paid for Viaduct Bonds matured.....	315,000 00
Total disbursements.....	\$684,188 77
Cash on hand January 1, 1898.....	\$174,056 00

TABLE NO. 65.

THE BRIDGE FUND—LOCAL ACCOUNT OF DISBURSEMENTS.

BRIDGE.	Interest.	Salaries.	Fuel, Light and Sprink- ling.	Miscel- laneous Supplies.	Repair- ers' Ma- terials.	Repair- ers' Wages.
Abbey Street Bridge.....	\$.....	\$ 915 00	\$ 7 80	\$.....	\$ 204 90	\$.....
Center Street Bridge.....	6,127 75	15 90	.....	9 85	.....
Central Viaduct.....	7,378 00	142 25	46 23	1,351 79	2,356 71
Columbus Street Bridge.....	7,270 25	40 05	14 29	95 44	.....
Elmwood Street Bridge.....	18 82	.....
Jefferson Street Bridge....	2,107 50	13 25	2 65	158 00	.....
Kingsbury Viaduct.....	872 16	.....	13 33	980 93	403 68
Main Street Bridge.....	7,203 17	280 14	67 36	196 67	.....
Petrie Street Bridge.....	6 00	.....
Praha Street Bridge.....	3 00	.....
Seneca Street Bridge.....	7,211 45	96 91	11 04	141 34	.....
Upper Seneca Bridge.....	6,102 25	29 15	29 42	399 61	.....
Middle Seneca Bridge.....	6,113 75	13 25	21 62	371 83	.....
Seneca Extension Bridge.....
Superior Viaduct.....	7,830 00	675 95	154 09	539 48	.....
Swiss Street Bridge.....	11 00	.....
Walworth Bridge.....	315 00	2 50	.....	43 98	207 00
Wilbur Street Bridge.....	2,909 65	18 00	5 85	184 48	150 50
Willson Avenue Bridge.....
Willet Street Bridge.....
Office, Storer'm and Undivided	131,230	295 00	64 85	666 83	2,476 27	8,149 81
Totals	\$131,230	\$62,650 96	\$1,400 00	\$1,032 71	\$7,193 39	\$11,267 70

TABLE No. 65.—Continued.

**THE BRIDGE FUND—LOCAL ACCOUNT OF DIS-
BURSEMENTS.—Continued.**

BRIDGE.	Conti- gent Expenses	Furni- ture.	Land.	Construc- tion and Recon- struction.	Bonds.	Totals.
Abbey Street Bridge.....	\$.....	\$.....	\$.....	\$ 11 77	\$.....	\$ 1,139 47
Center Street Bridge			17,000 80	1,062 00		24,216 30
Central Viaduct.....	15 00			2,945 67		14,235 65
Columbus Street Bridge.....		14 20		200 00		7,634 23
Elmwood Street Bridge.....						18 82
Jefferson Street Bridge.....				206 46		2,487 86
Kingsbury Viaduct.....				3,581 75		5,851 65
Main Street Bridge.....			26,261 84			34,009 18
Petrie Street Bridge.....				191 54		197 54
Praha Street Bridge.....			3,829 70			3,832 70
Seneca Street Bridge.....		7 06		249 47		7,717 26
Upper Seneca Bridge.....				811 02		7,371 45
Middle Seneca Bridge.....	2 65					6,523 10
Seneca Extension Bridge.....				4,497 19		4,497 19
Superior Viaduct.....	44 25			23 57		9,267 34
Swiss Street Bridge.....						11 00
Walworth Bridge.....						568 48
Wilbur Street Bridge.....		21 30	16,000 00	41,312 41		60,602 22
Willson Avenue Bridge			5,300 00	16,192 58		21,492 58
Willet Street Bridge.....			10,421 75	76 60		10,498 35
Office, Storer'm and Undivided	1,026 95			3,106 49	315,000	462,016 20
Totals	\$1,088 85	\$ 42 55	\$78,814 09	\$74,468 52	\$315,000	684,188 77

TABLE No. 66.

STREET FUND.—CLASSIFIED ANALYSIS.

(For itemized analysis, see table No. 67.)

Cash on hand January 1, 1897.....	\$	6 43
RECEIPTS.		
Received from general tax levy.....	\$103,263 48	
Received from licenses.....	7,810 00	
Total taxes.....	\$111,073 48	
Received from fees.....	8,868 79	
Received from sales.....	3,625 92	
Total earnings.....	\$ 12,494 71	
Received from transfers.....	\$ 15,000 00	
Total receipts.....	\$138,568 19	
Total to be accounted for.....	\$139,574 62	
DISBURSEMENTS.		
Paid fixed charges.....	\$ 2,966 63	
Paid for supplies.....	126,916 59	
Total operating expenses.....	\$ 129,883 25	
Paid for office furniture.....		
Paid for tools and implements.....	\$ 14 15	
Total furniture and fixtures.....	\$ 14 15	
Paid for grading and paving crosswalks.....	\$ 6,266 00	
Total permanent improvements ...	\$ 6,266 00	
Total disbursements....	\$136,163 40	
Cash on hand January 1, 1898.....	\$ 2,411 22	
ASSETS.		
Cash.....	\$ 2,411 22	
Implements (table No. 39).....	3,896 64	
Total assets.....	\$ 6,307 86	
LIABILITIES.		
No liabilities.....		
Excess of assets.....	\$ 6,307 86	

TABLE NO. 67.

STREET FUND.—ITEMIZED ANALYSIS.

(For Classified analysis, see table No. 66.)

Cash on hand January 1, 1897.....	\$	6 43
Received from general levy of 76 cents on each \$1,000 on tax duplicate of 1896.....		103,263 48
Received from 781 licenses for street cars in daily operation, at \$10 each.....		7,810 00
Received from 2362 permits to plumbers to make water connections, at \$1.50 each.		3,543 00
Received from 2,577 permits to plumbers to make sewer connections, at \$1.50 each		3,865 50
Received from 303 permits to open streets (table No. 13).....		1,460 29
Received from various parties on account of labor and supplies furnished in re- pairing streets opened by them for various purposes.....		3,625 92
Received from transfer from Market Fund (Ordinance No. 14350).....		15,000 00
Total to be accounted for.....		\$138,574 62
Paid for salaries of superintendents.....	\$	2,966 66
Paid for office supplies and stationery.....	\$	191 78
Paid for miscellaneous supplies.....		2,486 00
Paid for contingent expenses.....		49 33
Paid for cleaning paved streets.....		47,559 02
Paid for cleaning catch basins.....		5,996 46
Paid for wages of laborers.....		64,673 60
Paid for repair of streets.....		11,960 40
Total supplies.....		\$126,916 59
Paid for tools and implements.....		14 15
Paid for grading and paving crosswalks.....		6,266 00
Total disbursements.....		\$136,163 40
Cash on hand January 1, 1898.....	\$	2,411 22

TABLE NO. 68.

WATER FUND.—CLASSIFIED ANALYSIS.

(For itemized analysis, see table No. 69, and for local account, see table No. 70.)

Cash on hand January 1, 1897.....		\$ 138,353 68
RECEIPTS.		
Received from rents.....	\$623,173 22	
" " fees.....	12,917 69	
" " interest	21,446 34	
" " sales	6,188 58	
Total earnings.....		\$ 663,725 83
Received from sale of bonds.....	\$700,000 00	
" " deposits.....	5,961 00	
Total loans		\$ 705,961 00
Total receipts.....		\$1,369,686 83
Total to be accounted for.....		\$1,508,040 51
DISBURSEMENTS.		
Paid fixed charges.....	\$215,548 44	
" for supplies.....	83,124 47	
Total operating expenses		\$ 298,672 91
Paid for station furniture.....	\$ 238 42	
" " machinery and implements.....	52,592 73	
Total furniture and fixtures.....		\$ 52,831 15
Paid for buildings	\$ 52,564 25	
" " pipe extension.....	448,247 03	
Total permanent improvements		\$ 500,811 28
Paid for redemption of bonds.....	\$500,000 00	
" " return of deposits.....	3,417 00	
Total loans		\$ 503,417 00
Total disbursements.....		\$1,355,732 34
Cash on hand January 1, 1898		\$ 152,308 17
ASSETS.		
Cash.....	\$ 152,308 17	
Office furniture (table No. 37).....	10,159 84	
Institution furniture (table No. 38).....	13,372 07	
Machinery and implements (table No. 39).....	666,278 26	
Land, buildings and improvements (table No. 40).....	1,203,508 23	
Water pipe system (see table No. 42)	6,539,287 32	
Total assets.....		\$3,584,913 89
LIABILITIES.		
Bonds (table No. 45).....	\$2,087,000 00	
Deposits (table No. 51).....	21,450 78	
Total liabilities		\$2,108,450 78
Excess of assets.....		\$6,476,463 11

TABLE No. 69.

THE WATER FUND.—ITEMIZED ANALYSIS.

(For more condensed statement, see table No. 68; for local statement, see table No. 70.)

Cash on hand January 1, 1897.....	\$138,353 68	
Received from metered hydrants	\$229,457 83	
" from unmetered hydrants	386,856 81	
" from builders for water used	3,085 19	
" from sprinkling wagons and miscellaneous.....	2,723 35	
Total	\$632,123 18	
Less abatements and refunders paid.....	8,949 96	
Received from 2,314 connections to main pipe, at \$5.00.....	\$ 11,570 00	\$623,173 22
" from retapping charges.....	1,347 69	
" from bills to various parties for laying large private pipes.....	3,529 63	
" from bills to various parties for repairs, etc., to private pipes.....	2,536 42	
" from bills for postage, etc.	152 53	
" from premium and accrued interest on bonds sold.....	21,446 34	
" from sale of bonds (table No. 19)	700,000 00	
" from deposits (table No. 21).....	5,961 00	
Total to be accounted for.....	\$1,508,040 51	
Paid for interest on water works bonds.....	\$110,510 00	
" salaries of officers and employees.....	105,038 44	
Total fixed charges.....	\$215,548 44	
Paid for office supplies and stationery.....	\$ 1,826 15	
" for fuel and light.....	43,318 53	
" for miscellaneous supplies.....	3,319 60	
" for repairs to machinery.....	4,600 09	
" for repairs to buildings and pipes	13,678 56	
" for ferrules, tapping, etc.....	11,732 89	
" for contingent expenses.....	4,648 65	
Total supplies.....	\$ 83,124 47	
Paid for station furniture	\$ 238 42	
" for boilers, engines, pumps, etc	52,592 73	
Total furniture and fixtures.....	\$ 52,831 15	
Paid for construction of buildings.....	\$ 52,564 25	
" for new water pipe laid.....	448,247 03	
Total permanent improvements.....	\$500,811 28	
Paid to redeem bonds.....	\$500,000 00	
" for return of deposits (table No. 35)	3,417 00	
Total loans	\$503,417 00	
Total disbursements.....	\$1,355,732 34	
Cash on hand January 1, 1898.....		\$152,908 17

TABLE No. 70.

THE WATER FUND.—LOCAL ACCOUNT OF DISBURSEMENTS.

DEPARTMENT OF ACCOUNTS.

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PURPOSE.	General Office.	Division St. Station.	Reimburse- ment Station.	Tunnel and Crib.	Pipe System.	Reservoirs.	Totals.
.....	\$110,510 00	\$ 45,824 68	\$ 4,793 57	\$	\$	\$	\$ 110,510 00
.....	51,327 34	.....	.....	.....	.....	3,033 85	106,038 44
.....	1,826 15	.....	.....	.....	.....	2 55	1,828 15
.....	52 39	41,856 42	1,859 57	8 05	39 65	.....	43,318 53
.....	983 12	1,518 70	239 63	61 55	490 89	30 75	3,319 00
.....	.....	4,476 20	93 34	.....	31 55	.....	4,600 09
.....	79 31	1,309 77	30 45	9 73	12,142 47	56 83	13,678 59
.....	.....	.....	.....	.....	11,731 74	1 15	11,733 93
.....	3,421 67	500 43	125 00	.....	602 55	.....	4,046 65
.....	254 12	.....	.....	4 30	.....	.....	258 42
.....	.....	39,184 20	350 32	118 04	12,940 13	.....	52,592 73
.....	.....	52,594 25	.....	.....	.....	.....	52,594 25
.....	124 00	5,977 50	4 50	294,743 29	317,222 65	176 29	448,247 03
.....	3,417 00	.....	.....	.....	.....	.....	3,417 00
.....	500,000 00	.....	.....	.....	.....	.....	500,000 00
Totals	\$971,990 10	\$193,771 93	\$7,464 97	\$24,114 00	\$855,200 60	\$3,350 72	\$1,355,732 34

TABLE No. 71.

PARK FUND.—CLASSIFIED ANALYSIS.

(For itemized analysis, see table No. 72, and for local account, see table No. 73.)

Cash on hand January 1st, 1897.....	\$ 340,747 21	
RECEIPTS.		
Received from general tax	\$ 135,873 14	
" from licenses.....	1,985 00	
Total Tax.....		\$ 137,858 14
Received from rents.....	\$ 84 00	
" from interest.....	62,406 12	
" from sales.....	340 00	
Total earnings.....		62,829 12
Received from donations.....		81,039 72
Received from sale of Bonds.....		600,000 00
Total receipts.....		881,726 98
Total to be accounted for.....		\$1,222,474 19
DISBURSEMENTS.		
Paid fixed charges.....	\$103,737 75	
" for supplies.....	45,086 16	
Total operating expenses.....		\$ 148,823 91
Paid for office furniture.....	\$ 40 75	
" for implements.....	890 00	
" for animals.....	565 00	
Total furniture and fixtures.....		1,495 75
Paid for land.....	\$ 42,090 39	
" for buldings and structures.....	85,273 05	
" for grading, paving and seweriing.....	541,313 40	
" for fountains and fences.....	690 18	
Total permanent improvements.....		669,367 02
Total disbursements.....		819,686 68
Cash on hand January 1st, 1898.....		\$ 402,787 51
ASSETS.		
Cash.....	\$ 402,787 51	
Office furniture (table No. 37).....	377 47	
Institution furniture (table No. 38).....	10,204 34	
Machinery and implements (table No. 39).....	6,686 79	
Land, buldings and improvements (table No. 40).....	5,938,177 11	
Total assets.....		\$6,358,235 22
LIABILITIES.		
Bonds (table No. 45).....	1,600,000 00	
Excess of assets.....		\$4,758,235 22

TABLE No. 72.

PARK FUND.—ITEMIZED ANALYSIS.

(For classified analysis, see table No. 71, and for local account, see table No. 73.)

Cash on hand January 1, 1897.....	\$	340,747	21
Received from general levy of 50 cents on each \$1,000 on the tax duplicate of 1896.....		67,936	57
" from special interest levy of 50 cents on each \$1,000 on the tax duplicate of 1896.....		67,936	57
" from premiums and accrued Interest on bonds sold (table No. 19).....		62,405	12
" from sale of privileges at Wade Park.....		450	00
" from sale of privileges at Gordon Park.....		200	00
" from sale of privileges at Edgewater Park.....		1,335	00
" from rent of houses on park property.....		84	00
" from sale of house and barns.....		340	00
" from J. D. Rockefeller, cash for the purchase and improvement of Rockefeller parkway		81,039	72
" from sale of bonds (see table No. 19).....		600,000	00
Total to be accounted for.....	\$	1,222,474	19
Paid interest on park bonds.....	\$70,000	00	
" salaries of superintendent and police.....	30,437	75	
" salary of secretary.....	3,000	00	
" rent.....	300	00	
Total fixed charges.....		\$103,737	75
Paid for office supplies and stationery.....	119	95	
" for care of animals.....	963	31	
" for fuel and light.....	3,450	48	
" for gardening material.....	2,933	81	
" for labor.....	31,827	94	
" for contingent expenses.....	5,790	67	
Total supplies.....		45,086	16
Paid for office furniture.....	\$	40	75
" for park furniture.....	890	00	
" for animals.....	565	00	
Total furniture and fixtures.....		1,495	75
Paid for land.....	\$	42,090	39
" for fountains and fences.....	690	18	
" for grading and paving.....	277,606	11	
" for engineering.....	37,978	24	
" for work on Rockefeller parkway.....	225,729	05	
" for buildings and structures.....	85,273	05	
Total permanent improvements.....		669,367	02
Total disbursements.....		819,686	68
Cash on hand January 1, 1898.....		\$402,787	51

TABLE NO. 73.
THE PARK FUND.—LOCAL ACCOUNT OF DISBURSEMENTS.

PURPOSE.	Interest.	Superintendent and Police.	Secretary.	Rent.	Office Supplies and Stationery.	Care of Animals.	Fuel and Light.	Gardening Material.	Labor.	Contingent Expenses.
.....	\$.....	\$ 3,870 00	\$.....	\$.....	\$.....	\$ 903 31	\$ 441 84	\$ 128 24	\$ 8,147 35	\$ 1,104 72
.....	4,090 00	.....	.....	.....	.....	2,000 59	770 86	6,483 58	1,316 57
.....	4,258 75	.....	.....	.....	.....	179 16	500 43	9,911 89	501 81
.....	240 00	.....	.....	.....	.....	.....	3 00	.....	5 70
.....	660 00	.....	.....	.....	.....	2 90	87 40	312 25	67 23
.....	2,470 00	.....	.....	.....	.....	413 88	77 00	1,116 09	57 47
.....	7 00	.....	.....	.....	.....	84 51	642 69	594 16	166 96
.....	1, 90 00	.....	.....	.....	.....	205 24	161 00	408 10	133 28
.....	660 00	.....	.....	.....	.....	64 56	57 34	25 00	16 16
.....	110 00	.....	.....	.....	.....	30 16	.....	28 50	.....
.....	3,214 00	.....	.....	.....	.....	6 80	262 80	3,684 41	497 54
.....	930 00	.....	.....	.....	.....	.....	49 15	.....	30 22
.....	1,170 00	.....	.....	.....	.....	.....	6 00	45 00	274 83
.....	698 75	.....	.....	.....	.....	11 10	56 90	4 50	84 41
.....	30 00	.....	.....	.....	.....	6 80	13 71	28 50	187 95
.....	2 90	.....	.....	69 37
.....	40 00
.....	70,000 00	6,287 50	3,000 00	500 00	119 25	.....	12 00	49 29	1,251 70	1,253 27
.....
Totals.....	\$70,000 00	\$30,437 75	\$ 3,000 00	\$ 500 00	\$ 119 25	\$ 903 31	\$ 3,450 43	\$ 2,933 81	\$31,627 94	\$ 5,790 67

TABLE No. 73—Continued.

THE PARK FUND.—LOCAL ACCOUNT OF DISBURSEMENTS.

PURPOSE.	Office Furniture.	Park Furniture and Im-plements.	Animals.	Rocketeer Parkway.	Buildings and Structures.	Grading, Paving, etc.	Fountains and Fences.	Land.	Engineering.	Totals.
Wade Park	\$.....	\$ 300 00	\$ 565 00	\$.....	\$.....	\$ 126 00	\$ 67 20	\$.....	\$ 81 61	\$ 15,755 28
Gordon Way	590 00	.....	214,970 84	4,501 32	49,735 46	.....	.....	9,262 96	298,742 96
Gordon Park	23,252 45	18,332 38	147 00	.....	1,564 89	58,648 76
Sterling Park	248 70
Clinton Park	1,069 78
Lake View Park	4,134 25
Monumental Park	4,706 51	.....	.....	.....	7,285 04
South Side Park	3,829 50	351 38	.....	280 19	6,633 04
Franklin Park	7,500 00	157 54	735 10
Reservoir	11,529 20	.....	.....	.....	19,802 27
Edgewater Park	3,112 72	47,994 24	124 60	981 41	604 39	62,251 52
Ambler Park	21,274 97	27,336 70	.....	.....	2,454 00	53,220 00
Shaker Park	9,442 02	63,297 91	.....	.....	3,548 96	76,971 35
Newburgh Park	8,802 89	22,527 68	.....	.....	2,826 54	33,828 54
Brooklyn Park	7,604 60	26,084 07	.....	33,608 98	1,703 31	70,356 68
Cedar Parkway	10,758 71	7,282 08	925 63	.....	.....	2,124 32	20,610 64
Eastern Park	1,270 83	.....	.....	1,552 05	2,349 12
Office	40 75	.....	.....	.....	.....	.....	.....	.....	1,038 29	3,472 00
Undivided	10,709 19	88,561 63
Totals	\$ 40 75	\$ 890 00	\$ 565 00	\$225,729 05	\$85,273 05	\$277,606 11	\$ 690 18	\$42,190 39	\$37,978 24	\$819,696 68

TABLE No. 74.

POLICE FUND.—CLASSIFIED ANALYSIS.

(For itemized analysis, see table No. 75, and for local account, see table No. 76.)

Cash on hand January 1st, 1897.....		\$ 3,211 25
RECEIPTS.		
Received from general tax.....	\$220,114 48	
Received from liquor tax.....	145,694 19	
Received from cigarette tax.....	1,181 99	
Total taxes.....		\$366,990 66
Received from rents.....	\$325 00	
Received from fees.....	107 40	
Received from sales.....	58 51	
Total earnings.....		490 91
Received from sale of bonds.....	\$100,000 00	
Total loans.....		100,000 00
Received from transfers.....		25,250 00
Total receipts.....		492,731 57
Total to be accounted for.....		\$495,942 82
DISBURSEMENTS.		
Paid for fixed charges.....	\$371,221 03	
Paid for supplies.....	15,715 98	
Total operating expenses.....		\$386,937 01
Paid for institution furniture.....	\$2,348 57	
Paid for machinery and implements.....	2,022 28	
Total furniture and fixtures.....		4,370 85
Paid for buildings.....	\$129 53	
Paid for grading, paving and sewerage.....	780 76	
Total permanent improvements.....		910 29
Paid to redeem bonds.....	\$100,000 00	
Total loans.....		100,000 00
Total disbursements.....		492,218 15
Cash on hand January 1st, 1898.....		\$3,724 67
ASSETS.		
Cash.....		\$3,724 67
Office furniture (table No. 37).....		1,000 00
Institution furniture (table No. 38).....		25,280 31
Horses, wagons and harness (table No. 39).....		89,985 62
Land, buildings and improvements (table No. 40)...		414,420 88
Total assets.....		\$484,411 48
LIABILITIES.		
Bonds (table No. 45).....		\$120,000 00
Excess of assets.....		\$364,411 48

TABLE No. 75.

POLICE FUND—ITEMIZED ANALYSIS.

(For classified analysis, see table No. 74, and for local account, see table No. 76.)

Cash on hand January 1, 1897.....	\$ 3,211 25
Received from general levy of \$1.62 on each \$1,000 on tax duplicate of 1896.....	220,114 48
Received from 2¼-10 of liquor tax collection... ..	145,694 19
Received from ½ of cigarette tax collection (table No. 8.).....	1,181 99
Received from rent of room in 8th Precinct Police Station to J. D. Palmer, Justice of the Peace.....	325 00
Received from pound-keepers' fees.....	107 40
Received from sales of horse, old zinc, old desk, etc.....	58 51
Received from sale of Bonds.....	100,000 00
Received from transfer from Interest Fund to pay interest on Police Bonds...	5,250 00
Received from transfer from Market Fund (Ordinance No. 14350).....	20,000 00
Total to be accounted for.....	\$ 492,731 57
Paid for interest on Police Bonds	\$ 5,250 00
Paid rent.....	964 47
Paid salaries of police force.....	363,746 56
Paid salaries of pound-keepers.....	1,260 00
Total fixed charges.....	\$ 371,221 03
Paid for office supplies and stationery.....	1,224 73
Paid for care of horses and wagons.....	3,230 25
Paid for fuel and light.....	6,951 99
Paid for miscellaneous supplies.....	1,309 94
Paid for repairs.....	2,999 07
Total supplies.....	15,715 98
Paid for station furniture.....	1,164 22
Paid for horses, wagons and harness.....	1,184 35
Paid for patrol apparatus.....	2,022 28
Total furniture and fixtures.....	4,370 85
Paid for construction of buildings.....	129 53
Paid for grading, paving and sewerage.....	780 76
Total permanent improvements.....	910 29
Paid to redeem Bonds.....	100,000 00
Total loans.....	100,000 00
Total disbursements.....	492,218 15
Cash on hand January 1, 1898.....	\$ 3,724 67

TABLE No. 76.
THE POLICE FUND.—LOCAL ACCOUNT OF DISBURSEMENTS.

STATIONS.	Interest.	Rents.	Salaries.	Office Supplies.	Care of Horses.	Fuel and Light.	Miscellaneous Supplies.	Repairs.
Headquarters	\$.....	\$ 33 00	\$.....	\$ 17 65	\$ 110 00	\$.....	\$ 90	\$ 12 00
1st Precinct Police Station	75 00	.....	45 00	.....	2,498 67	151 08	272 09
2nd	20 00	.....	8 00	5 58	250 49	10 06	7 00
3rd	20 00	.....	8 00	.....	222 68	11 12	62 35
4th	140 00	.....	6 00	1 50	378 22	62 31	161 37
5th	20 00	.....	8 00	.....	368 65	45 10	13 93
6th	116 15	.....	6 00	5 27	270 75	4 88	765 54
7th	20 00	.....	8 00	.....	187 82	2 22	562 43
8th	35 00	.....	6 00	.....	1,289 53	59 31	743 96
9th	20 00	.....	8 00	.....	162 90	22 57	80 81
10th	20 00	.....	8 00	.....	2-9 89	17 04	39 94
11th	20 00	.....	8 00	.....	362 51	58	81 17
12th	20 00	.....	8 00	13 31	419 57	20 36	58 04
Patrol Station No. 1.....	20 00	.....	.....	970 94	121 68	25 99	102 09
2.....	20 00	.....	.....	640 87	6 40	79 80	.....
3.....	20 00	.....	.....	438 82	39 76	5 11	8 15
4.....	654 90	64 83	16 06	.....
5.....	331 97	4 80	12 24	6 70
Patrol System.....	50 00	.....	.....	39 09	.....	57 78	.....
Detectives.....	20 00	.....	8 75	.....	.....	50 67	.....
Poundkeepers.....	22 00	1,290 00	.....	.....	.....	.....	21 50
Office, Storeroom and Undivided	5,250 00	253 32	363,746 56	1,071 33	18 00	12 74	6 4 76	.....
Totals	\$ 5,250 00	\$ 964 47	\$365,006 56	\$ 1,224 73	\$ 3,230 25	\$ 6,951 99	\$ 1,309 94	\$ 2,949 07

TABLE No. 76—Continued.
THE POLICE FUND.—LOCAL ACCOUNT OF DISBURSEMENTS.

STATIONS.		DEPARTMENT OF ACCOUNTS.						
	Station Furniture.	Horses and Wagons.	Patrol System.	Land.	Build ings.	(Grading, Paving, etc	Bonds.	Totals.
Headquarters.....	\$ 10 50	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$ 185 55
1st Precinct Police Station	138 96	.....	.....	.....	.....	19 50	.....	3,201 10
2nd ".....	55 93	.....	.....	.....	.....	172 53	.....	529 69
3rd ".....	18 44	.....	.....	.....	.....	47 04	.....	389 63
4th ".....	388 96	.....	.....	.....	103 53	172 20	.....	1,414 09
5th ".....	97 04	.....	.....	.....	26 10	73 55	.....	652 27
6th ".....	12 50	.....	.....	.....	.....	49 00	.....	1,230 09
7th ".....	186 77	.....	.....	.....	.....	98 00	.....	1,065 24
8th ".....	151 58	.....	.....	.....	.....	117 19	.....	2,403 47
9th ".....	2 41	.....	.....	.....	.....	.....	.....	296 69
10th ".....	7 50	.....	.....	.....	.....	.....	.....	382 37
11th ".....	4 65	.....	.....	.....	.....	.....	.....	476 91
12th ".....	20 50	.....	.....	.....	.....	20 00	.....	579 78
Patrol Station No. 1.....	19 48	686 45	.....	.....	.....	1 75	.....	1,898 38
" 2.....	.....	171 05	.....	.....	.....	.....	.....	918 12
" 3.....	.....	34 00	.....	.....	.....	.....	.....	54 84
" 4.....	1 50	229 35	.....	.....	.....	10 00	.....	976 64
" 5.....	.....	104 50	.....	.....	.....	.....	.....	460 21
Patrol System.....	.....	.....	2,019 08	.....	.....	.....	.....	2,165 95
Detectives.....	47 50	.....	.....	.....	.....	.....	.....	126 92
Poundkeepers.....	.....	.....	.....	.....	.....	.....	.....	1,303 50
Office, Storeroom and Undivided .....	.....	9 00	.....	.....	.....	.....	100,000 00	471,015 71
Totals	\$ 1,164 22	\$ 1,184 35	\$ 2,019 08	.....	\$ 129 53	\$ 780 76	\$100,000 00	\$492,218 15

TABLE NO. 77.

POLICE COURT.—CLASSIFIED ANALYSIS.

(For itemized analysis, see table No. 78.)

Cash on hand January 1st, 1897.....	\$ 2,814 46
RECEIPTS.	
Received from fees.....	\$29,186 40
Total earnings.....	\$29,186 40
Total receipts.....	\$29,186 40
Total to be accounted for.....	\$32,000 86
DISBURSEMENTS.	
Paid for fixed charges.....	\$23,029 98
Paid for supplies.....	2,710 97
Total operating expenses.....	\$25,740 95
Paid for office furniture.....	\$243 86
Total furniture and fixtures.....	243 86
Paid for buildings.....	\$2,493 77
Total permanent improvements.....	\$2,493 77
Total disbursements.....	28,478 58
Cash on hand January 1st, 1898.....	\$3,522 28
ASSETS.	
Cash.....	\$3,522 28
Office furniture (table No. 37).....	2,121 55
Total assets.....	\$5,643 83
LIABILITIES.	
No liabilities.....	.....
Excess of assets.....	\$5,643 83

TABLE NO. 78.

POLICE COURT.—ITEMIZED ANALYSIS.

(For classified analysis, see table No. 77.)

Cash on hand January 1st, 1897	\$ 2,814 46	
Received from fines and costs collected by Clerk of the Police Court.....	27,758 00	
Received from fines and costs collected by Superintendent of Workhouse.....	1,430 40	
Total to be accounted for.....	\$32,000 86	
Paid salaries of judge and court officers.....	\$14,958 53	
Paid salaries of interim judges.....	66 60	
Paid witness and jurors' fees.....	1,426 50	
Paid officers' fees (to police pension fund).....	6,578 35	
Total fixed charges.....	\$23,029 98	
Paid for office supplies and stationery.....	\$1,471 32	
Paid for transportation of prisoners.....	480 00	
Paid for repairs to furniture.....	73 89	
Paid for repairs to building.....	492 44	
Paid for contingent expenses.....	193 32	
Total supplies.....	2,710 97	
Paid for office furniture and fixtures.....	243 86	
Paid contractors on 4th precinct station.....	2,493 77	
Total disbursements.....	28,478 58	
Cash on hand January 1st, 1898.....	\$3,522 28	

TABLE No. 79.

MARKET FUND.—CLASSIFIED ANALYSIS.

(For itemized analysis, see table No. 80, and for local account, see table No. 81.)

Cash on hand January 1, 1897.....	\$	3,024	29
RECEIPTS.			
Received from licenses.....	\$14,833	00	
Total taxes.....	\$14,833	00	
Received from rents.....	\$38,049	65	
Received from fees.....	5,188	34	
Total earnings.....	43,237	99	
Total receipts.....			58,070 99
Total to be accounted for.....			\$61,095 28
DISBURSEMENTS.			
Paid fixed charges.....	\$12,598	99	
Paid for supplies.....	7,240	93	
Total operating expenses.....	\$19,839	92	
Paid for institution furniture.....	108	67	
Total furniture and fixtures.....			108 67
Paid for grading, paving and sewerage.....	241	16	
Total permanent improvements.....			241 16
Paid for transfers.....	40,000	00	
Total disbursements.....			60,189 75
Cash on hand January 1, 1898.....			\$905 53
ASSETS.			
Cash.....	\$905	53	
Institution furniture (table 38).....	1,749	94	
Land, buildings and improvements (table 40).....	165,335	58	
Total assets.....			\$167,991 05
LIABILITIES.			
No liabilities.....			.....
Excess of assets.....			\$167,991 05

TABLE No. 80.

MARKET FUND.—ITEMIZED ANALYSIS.

(For classified analysis, see table No. 79, and for local account, see table No. 81.)

Cash on hand January 1st, 1897.....		\$ 3,024 29
Received from 1382 peddlers' licenses.....		12,413 00
Received from 242 gardeners' licenses.....		2,420 00
Received from rents of market house stalls, curbs, etc.		
Central market.....	\$ 28,714 15	
Pearl street market.....	8,637 49	
Broadway market.....	698 01	
	<u> </u>	38,049 65
Received from fees of hay-weighers (table No. 13).....		2,435 75
Received from fees of city sealer (table No. 13).....		2,734 97
Received from fees (percentage) of weighing machine.....		17 62
Total to be accounted for.....		<u>\$61,095 28</u>
Paid for rents.....	\$ 58 99	
Paid officers' and employes' salaries.....	12,540 00	
Total fixed charges.....	<u> </u>	\$12,598 99
Paid for office supplies and stationery.....	\$113 57	
Paid for fuel and light.....	3,917 25	
Paid for livery.....	600 00	
Paid for miscellaneous supplies.....	143 60	
Paid for repairs.....	871 40	
Paid for contingent expenses.....	228 95	
Paid for cleaning market houses and grounds.....	1,366 16	
Total supplies... ..	<u> </u>	7,240 93
Paid for market house fixtures.....	108 67	
Paid for grading, paving and sewerage.....	241 16	
Paid transfer to Fire Fund (Ord. No. 14350).....	\$ 5,000 00	
Paid transfer to Police Fund (Ord. No. 14350).....	20,000 00	
Paid transfer to Street Fund (Ord. No. 14350).....	15,000 00	
Total transfers.....	<u> </u>	40,000 00
Total disbursement ..		<u>60,189 75</u>
Cash on hand January 1st, 1898.....		\$905 53

DEPARTMENT OF ACCOUNTS.

TABLE No. 81.

THE MARKET FUND.—LOCAL ACCOUNT OF RECEIPTS AND DISBURSEMENTS.

PURPOSE.	Central Market.	Pearl St. Market.	Broadway Market.	Office and Superintendents.	Hay and Hay Weighers Market.	License Clerk.	Surplus.	Totals.
RECEIPTS.								
Rents.....	\$28,714 15	\$ 8,637 49	\$ 698 01	\$.....	2,453 37	\$.....	\$.....	\$ 38,049 65
Fees.....	.....	.....	.....	.....	.....	.....	.....	6,188 34
Licenses.....	.....	.....	.....	.....	.....	14,833 00	.....	14,833 00
Total Receipts.....	\$28,714 15	\$ 8,637 49	\$ 698 01	\$.....	\$ 2,453 37	\$14,833 00	\$.....	\$ 58,078 99
DISBURSEMENTS.								
Rents ("Phone").....	\$ 20 00	\$ 20 00	\$ 3 30	\$ 15 00	.....	.....	\$.....	\$ 58 99
Salaries.....	1,440 00	1,440 00	720 00	4,800 00	2,040 00	.....	.....	12,640 00
Office supplies.....	11 00	6 00	.....	54 82	41 75	.....	.....	113 57
Fuel and light.....	2,453 19	1,317 12	138 99	.....	2 65	.....	.....	3,917 25
Livery.....	.....	.....	.....	300 00	300 00	.....	.....	600 00
Miscellaneous supplies.....	94 00	6 10	\$ 96	.....	.....	33 94	.....	143 60
Repairs.....	348 30	190 31	253 50	\$ 50	76 29	.....	.....	671 40
Contingent.....	83 00	3 60	9 75	.....	.....	182 00	.....	228 35
Cleaning grounds.....	900 00	300 00	115 85	.....	.....	.....	.....	1,366 16
Furniture.....	13 40	34 20	61 07	.....	.....	.....	.....	118 67
Grading, paving and sewerage.....	.....	7 15	.....	.....	234 01	.....	.....	241 16
Transfers.....	.....	.....	.....	.....	.....	.....	40,000 00	40,000 00
Total Disbursements.....	\$ 5,314 50	\$ 3,324 48	\$ 1,312 11	\$ 5,172 32	\$ 2,444 40	\$ 215 94	\$40,000 00	\$ 60,189 75

TABLE No. 82.

SANITARY FUND.—CLASSIFIED ANALYSIS.

(For itemized analysis, see table No. 83.)

Cash on hand January 1st, 1897.....	\$ 1,570 81
RECEIPTS.	
Received from general tax.....	\$36,685 74
Received from licenses.....	3,670 00
Total tax.....	\$40,355 74
Received from fees.....	\$152 00
Total earnings.....	152 00
Total receipts.....	40,507 74
Total to be accounted for.....	\$42,078 55
DISBURSEMENTS.	
Paid fixed charges.....	\$33,846 12
Paid for supplies.....	5,818 49
Total operating expenses.....	\$39,664 61
Paid for office furniture.....	\$97 05
Total furniture and fixtures.....	97 05
Total disbursements.....	\$39,761 66
Cash on hand January 1st, 1898.....	\$2,316 89
ASSETS.	
Cash.....	\$2,316 89
Office furniture (table No. 37).....	825 80
Food Inspector's apparatus (table No. 38).....	1,521 98
Land, buildings and improvements (table No. 40).....	4,065 22
Total assets.....	\$8,729 89
LIABILITIES.	
No liabilities.....	.....
Excess of assets.....	\$8,729 89

TABLE No. 83.

THE SANITARY FUND.—ITEMIZED ANALYSIS.

(For classified analysis, see table No. 82.)

Cash on hand January 1st, 1897.....	\$ 1,570 81	
Received from general levy of 27 cents on each \$1,000 of tax duplicate of 1896.....	36,685 74	
Received from 1,745 milk peddlers' licenses at \$1.00.....	1,745 00	
Received from 127 licenses to slaughter at \$10.00.....	1,270 00	
Received from 87 licenses to keep livery stables at \$1.00.....	87 00	
Received from 80 master plumbers' licenses at \$5.00.....	400 00	
Received from 106 journeymen plumbers' licenses at \$1.00.....	106 00	
Received from 123 master plumbers' renewals at 50c.....	61 50	
Received from 1 journeyman plumber's renewal at 50c.....	50	
Received from fees for searching records and giving certificates of death.....	149 00	
Received from fees for searching records and giving certificates of birth.....	3 00	
Total to be accounted for.....	\$12,078 55	
Paid for Officers' and Patrolmen's salaries.....	\$33,846 12	
Paid for office supplies and stationery.....	\$ 581 95	
Paid for fuel and light.....	11 12	
Paid for drugs and medicine.....	1,046 02	
Paid for hospital and ambulance fees.....	338 00	
Paid for removal of garbage.....	1,699 96	
Paid for special service.....	1,084 33	
Paid for contingent expenses.....	488 68	
Paid for repairs to buildings.....	71 00	
Paid for Food Inspector's supplies.....	497 43	
Total supplies.....	5,818 49	
Paid for office furniture.....	97 05	
Total disbursements.....	39,761 66	
Cash on hand January 1st, 1898.....	\$2,316 89	

TABLE No. 84.

CEMETERY FUND.—CLASSIFIED ANALYSIS.

(For itemized analysis, see table No. 85, and for local account, see table No. 86.)

Cash on hand January 1, 1897.....		\$487 12
RECEIPTS.		
Received from fees.....	\$12,993 65	
Received from sales.....	13,815 90	
	<hr/>	
Total earnings.....	\$26,809 55	
Received from sale of land.....	5,000 00	
	<hr/>	
Total receipts.....		31,809 55
		<hr/>
Total to be accounted for.....		\$32,296 67
DISBURSEMENTS.		
Paid for fixed charges.....	\$ 6,550 00	
Paid for supplies.....	17,667 62	
	<hr/>	
Total operating expenses.....	\$24,217 62	
Paid for institution furniture.....	\$296 62	
	<hr/>	
Total furniture and fixtures.....	296 62	
Paid for land.....	\$1,900 00	
	<hr/>	
Total permanent improvements.....	1,900 00	
	<hr/>	
Total disbursements.....		26,414 24
		<hr/>
Cash on hand January 1, 1898.....		\$5,882 43
ASSETS.		
Cash.....	\$ 5,882 43	
Institution furniture (table No. 38).....	10,759 20	
Land, buildings and improvements (table No. 40).....	263,083 48	
	<hr/>	
Total assets.....		\$279,675 11
LIABILITIES.		
No liabilities.....		.....
		<hr/>
Excess of assets.....		\$279,675 11

TABLE NO. 85.

CEMETERY FUND.—ITEMIZED ANALYSIS.

(For classified analysis, see table No. 84, and for local account, see table No. 86.)

Cash on hand January 1, 1897.....	\$	487 12	
Received from interment fees.....		8,167 50	
Received from disinterment fees.....		331 00	
Received from grave improvement fees.....		3,504 90	
Received from vault fees.....		900 25	
Received from sale of cemetery lots.....		13,815 90	
Received from sale of land to Infirmary.....		5,000 00	
Total to be accounted for...		\$31,809 55	
Paid for supervision and Police..	\$	6,550 00	
Paid for office supplies and stationery.....	\$	242 63	
Paid for care of horses and wagons.....		367 12	
Paid for fuel and light.....		124 06	
Paid for gardening material,.....		1,001 75	
Paid for burial material.....		769 95	
Paid for labor.....		14,780 90	
Paid for repairs to vaults and buildings.....		203 01	
Paid for contingent expenses.....		178 20	
Total supplies.....		17,667 62	
Paid for cemetery fixtures and implements.....		296 62	
Paid for land.....	\$	1,900 00	
Total permanent improvements.....		1,900 00	
Total disbursements.....		26,414 24	
Cash on hand January 1, 1898.....		\$5,882 43	

TABLE NO. 86.
THE CEMETERY FUND.—LOCAL ACCOUNT OF RECEIPTS AND DISBURSEMENTS.

PURPOSE.	Woodland Cemetery.	Elrio Cemetery.	Monroe Cemetery.	Harvard Grove Cemetery.	West Park Cemetery.	Locain Cemetery.	Brooklyn Cemetery.	Office.	Totals.
RECEIPTS									
Interment fees.....	\$ 5,424 00	\$ 334 00	\$ 1,816 75	\$ 502 75	\$.....	\$.....	\$.....	\$.....	\$ 8,167 50
Disinterment fees.....	193 50	90 50	57 00	5 00	.....	.....	.....	.....	331 00
Improvement fees.....	2,222 90	155 00	905 10	220 90	.....	.....	.....	.....	3,504 90
Vault fees.....	634 00	57 50	145 75	50 00	.....	.....	.....	.....	900 25
Sale of lots.....	10,877 50	306 50	1,171 00	1,408 90	.....	5,000 00	.....	.....	13,816 90
Sale of land.....	.....	.....	.....	.....	.....	.....	.....	.....	5,000 00
Total Receipts.....	\$19,346 90	\$ 945 50	\$ 4,189 00	\$ 2,327 55	\$.....	\$ 5,000 00	\$.....	\$.....	\$ 26,809 55
DISBURSEMENTS									
Ice.....	\$ 3,930 00	\$ 900 00	\$ 1,000 00	\$ 720 00	\$.....	\$.....	\$.....	\$ 202 17	\$ 6,550 00
.....	17 46	6 00	11 00	6 00	.....	.....	.....	.....	242 83
.....	329 60	.....	.....	.....	.....	37 43	.....	.....	367 12
.....	30 16	35 40	29 25	29 26	.....	.....	.....	.....	124 06
.....	638 72	53 38	79 29	71 03	.....	130 75	.....	.....	1,001 75
.....	652 37	78 78	79 18	37 62	.....	.....	.....	.....	789 95
.....	8,764 60	894 00	2,267 65	1,179 34	768 50	754 31	152 50	.....	14,780 90
.....	186 79	12 20	.....	4 02	.....	.....	.....	.....	203 01
.....	106 20	20 00	20 00	20 00	10 00	.....	.....	.....	178 20
.....	103 75	35 70	11 40	.....	79 27	68 50	.....	.....	308 62
.....	.....	.....	.....	.....	3,900 00	.....	.....	.....	1,900 00
Total Disbursements.....	\$14,761 74	\$ 1,937 46	\$ 3,487 77	\$ 2,087 26	\$ 2,816 35	\$ 978 99	\$ 152 50	\$ 202 17	\$ 26,414 24

TABLE No. 87.

HOUSE OF CORRECTION. — CLASSIFIED ANALYSIS.

(For itemized analysis, see table No. 88.)

Cash on hand January 1, 1897.....	\$ 30,096 64	
RECEIPTS.		
Received from fees.....	\$ 1,629 70	
Received from sales.....	22,601 08	
Received from profits on investments.....	23,996 20	
Total earnings.....	\$ 48,226 98	
Received from return of capital invested in manufac- ing business.....	\$22,560 32	
Total investments.....	22,560 32	
Total receipts,.....		70,787 30
Total to be accounted for.....		\$100,883 94
DISBURSEMENTS.		
Paid fixed charges.....	\$22,048 63	
Paid for supplies.....	21,364 54	
Total operating expenses.....	\$43,413 17	
Paid for institution furniture.....	364 53	
Total furniture and fixtures.....	364 53	
Paid for sewer and culvert.....	\$2,249 93	
Total permanent improvements.....	2,249 93	
Paid capital into manufacturing business.....	\$30,536 88	
Total investments.....	30,536 88	
Total disbursements.....		76,564 51
Cash on hand January 1, 1898.....		\$24,319 43
ASSETS.		
Cash.....	\$ 24,319 43	
Institution furniture and unused supplies (table No. 38)	34,772 20	
Land, buildings and improvements (table No. 40).....	310,912 99	
Investments (table No. 43).....	59,090 73	
Total assets.....		429,095 35
LIABILITIES.		
No liabilities.		
Excess of assets.....		\$429,095 35

TABLE NO. 88.

HOUSE OF CORRECTION.—ITEMIZED ANALYSIS.

(For classified analysis, see table No. 87.)

Cash on hand January 1st, 1897.....	\$ 30,096 64
Received from House of Correction prisoners for costs and fines.....	1,629 70
Received from board of United States and State of Ohio prisoners.....	21,932 97
Received for transportation of prisoners.....	430 00
Received from the sale of old rags, waste paper, etc.....	188 11
Received profits on brush manufacturing business.....	23,996 20
Received from capital invested in brush manufacturing business.....	22,560 32
Total to be accounted for.....	100,883 94
Paid for superintendence, supervision and guarding..	\$22,048 63
Paid for stationery and office supplies.....	249 75
Paid for fuel, light, water and ice.....	2,661 74
Paid for miscellaneous prison supplies.....	999 44
Paid for maintenance of horses and repairs to wagons and harness.....	438 74
Paid for repairs to prison property.....	1,808 80
Paid for prison food and clothing.....	14,648 64
Paid for contingent expenses of prison.....	557 43
Total supplies.....	\$21,364 54
Paid for prison furniture and fixtures.....	364 53
Paid for building, sewer and culvert.....	2,249 93
Paid for brush manufacturing purposes—stock.....	29,312 01
Paid for manufacturing purposes—machinery.....	1,224 87 30,536 88
Total disbursements.....	\$76,564 51
Cash on hand January 1st, 1898.....	\$24,319 43

TABLE No. 89.

INFIRMARY FUND.—CLASSIFIED ANALYSIS.

(For itemized analysis, see table No. 90.)

Cash on hand January 1, 1897.....		\$45,610 94
RECEIPTS.		
Received from liquor tax.....	\$116,555 35	
Received from cigarette tax.....	1,181 98	
Total tax.....		\$117,737 33
Received from sales.....	\$11,662 88	
Total earnings.....		11,662 88
Received from sale of land.....		6,078 00
Total receipts.....		135,478 21
Total to be accounted for.....		\$181,089 15
DISBURSEMENTS.		
Paid fixed charges.....	\$ 26,594 79	
Paid for supplies.....	106,314 92	
Total operating expenses.....		\$132,909 71
Paid for institution furniture.....	\$2,280 86	
Paid for machinery and implements.....	289 85	
Total furniture and fixtures.....		2,570 71
Paid for land.....	\$ 5,000 00	
Paid for buildings.....	13,014 58	
Paid for grading, paving and sewerage ...	6,190 50	
Total permanent improvements.....		24,205 08
Total disbursements.....		\$159,685 50
Cash on hand January 1, 1898.....		\$21,403 65
ASSETS.		
Cash.....	\$ 21,403 65	
Office furniture (table No. 37).....	317 50	
Institution furniture (table No. 38).....	26,139 92	
Tools and implements (table No. 39).....	884 95	
Land, buildings and improvements (table No 40).....	642,736 58	
Total assets.....		\$691,482 60
LIABILITIES.		
No liabilities.....		.....
Excess of assets.....		\$691,482 60

TABLE No. 90.

INFIRMARY FUND.—ITEMIZED ANALYSIS.

(For classified analysis, see table No. 89.)

Cash on hand January 1st, 1897.....	\$ 45,610 94
Received from 2-10 liquor tax collection.....	116,555 35
Received from ½ cigarette tax collection (see table No. 8).....	1,181 98
Received from board of non-resident paupers.....	6,321 24
Received from board of township paupers.....	4,595 83
Received from reimbursements for transportation and burials.....	60 30
Received from sales of produce.....	685 51
Received from sale of land.....	6,078 00
Total to be accounted for.....	\$181,089 15
Paid for supervision, investigation and attendance.....	\$ 26,594 79
Paid for office supplies and stationery.....	\$ 433 93
Paid for hospital and infirmary supplies.....	63,437 20
Paid for farm supplies.....	298 78
Paid for care of horses and wagons.....	621 27
Paid for out-door relief supplies.....	29,803 14
Paid for transportation.....	2,783 42
Paid for burials.....	2,326 00
Paid for repairs.....	6,451 23
Paid for contingent expenses.....	159 95
Total supplies.....	106,314 92
Paid for infirmary furniture.....	\$ 2,280 86
Paid for machinery and implements.....	217 50
Paid for horses and wagons.....	72 35
Total furniture.....	\$ 2,570 71
Paid for land.....	5,000 00
Paid for buildings.....	13,014 58
Paid for grading, paving and sewerage.....	6,190 50
Total permanent improvements	\$ 24,205 08
Total disbursements.....	\$159,685 50
Cash on hand January 1st, 1898.....	\$ 21,403 65

TABLE No. 91.

FIRE FUND.—CLASSIFIED ANALYSIS.

(For itemized analysis, see table No. 92, and for local account, see table No. 93.)

Cash on hand January 1, 1897.....	\$ 7,501 61
RECEIPTS.	
Received from general tax.....	\$442,946 42
Total tax.....	\$442,946 42
Received from fees.....	\$6,678 34
Received from sales.....	1,127 53
Total earnings.....	\$7,805 87
Received from transfers.....	17,350 00
Total receipts.....	468,102 29
Total to be accounted for.....	\$475,603 90
DISBURSEMENTS.	
Paid fixed charges.....	\$402,978 59
Paid for supplies.....	33,510 23
Total operating expenses.....	\$436,488 82
Paid for office furniture.....	35 50
Paid for institution furniture.....	265 97
Paid for machinery and implements.....	12,588 34
Total furniture and fixtures.....	12,889 81
Paid for grading, paving and sewerage.....	\$ 269 37
Paid for land.....	2,500 00
Paid for buildings.....	3,830 69
Total permanent improvements.....	6,600 06
Total disbursements.....	455,978 69
Cash on hand January 1, 1898.....	\$19,625 21
ASSETS.	
Cash.....	\$ 19,625 21
Office furniture (table No. 37).....	972 70
Institution furniture (table No. 38).....	13,488 00
Apparatus (table No. 39).....	360,788 99
Land, buildings and improvements (table No. 40).....	421,370 27
Total assets.....	816,245 17
LIABILITIES.	
Bonds (table No. 45).....	\$247,000 00
Excess of assets.....	\$569,245 17

TABLE No. 92.

FIRE FUND—ITEMIZED ANALYSIS.

(For classified analysis, see table No. 91, and for local account, see table No. 93.)

Cash on hand January 1st, 1897.....	\$ 7,501 61	
Received from general tax levy of \$3.26 on each \$1,000 on 1896 duplicate.....	442,946 42	
Received from fees of Building Inspector and for moving houses \$ 5,891 74		
Less amount refunded.....	3 40	
	<u>\$ 5,888 34</u>	
Received from fees of Boiler Inspector.....	695 00	
Received from fees for extinguishing fires outside the city limits.....	95 00	
Received from sales of old fire hose, horses, scrap iron, etc.....	1,127 53	
Received from transfer from interest fund to pay interest on fire bonds	12,350 00	
Received from transfer from Market Fund (Ord. 14350.).....	5,000 00	
Total to be accounted for.....	<u>\$475,603 90</u>	
Paid for interest.....	\$ 12,350 00	
Paid for salaries of officers and employees.....	390,628 59	
Total fixed charges.....	<u>\$402,978 59</u>	
Paid for office supplies and stationery.....	\$ 510 18	
Paid for fuel, light, water and ice.....	8,202 99	
Paid for care of horses and harness.....	12,334 85	
Paid for repairs to apparatus.....	3,861 49	
Paid for repairs to buildings.....	2,464 43	
Paid for miscellaneous supplies.....	5,387 85	
Paid for contingent expenses.....	748 44	
Total supplies.....	<u>\$ 33,510 23</u>	
Paid for office furniture and fixtures.....	35 50	
Paid for station furniture and fixtures.....	265 97	
Paid for apparatus.....	9,025 73	
Paid for horses and harness.....	3,562 61	
Total furniture and fixtures.....	<u>\$ 12,889 81</u>	
Paid for grading, paving, etc.....	269 37	
Paid for land.....	2,500 00	
Paid for buildings.....	3,830 69	
Total permanent improvements.....	<u>\$ 6,600 06</u>	
Total disbursements.....	<u>455,978 69</u>	
Cash on hand January 1st, 1898.....	<u>\$ 19,625 21</u>	

TABLE NO. 93.
THE FIRE FUND.—LOCAL ACCOUNT OF DISBURSEMENTS, 1897.

No. of Appr.	Purpose of Appropriation.	General Office.	Signal Service.	Engine Co. No. 1.	Engine Co. No. 2.	Engine Co. No. 3.	Engine Co. No. 4.	Engine Co. No. 5.	Engine Co. No. 6.
1	Interest.....	\$ 1,599 84	\$ 7,253 54	\$ 18,715 06	\$ 12,877 89	\$ 9,870 28	\$ 10,068 89	\$ 9,808 10	\$ 11,719 53
2	Officers' and employees' salaries.....								
3	.....							
4	Office furniture and fixtures.....	6 00		14 75	11 00	4 00			
5	.....			203 20	6 00	31 62			
6	.....			4 67	17 75		7 26	76 00	\$ 15
7	.....							
8	.....							
9	.....	121 26	19 97						
10	.....			578 59	286 74	394 80	435 17	229 61	286 02
11	.....			1,300 26	423 51	574 03	652 30	256 09	590 61
12	.....			240 18	85 67	97 84	74 77	28 88	67 76
13	.....			15 75	13 08	14 81	171 53	59	58 98
14	Miscellaneous supplies.....	\$ 65	686 94	122 15	67 28	41 84	36 26	36 82	67 43
15	Contingent.....								
16	Grading, paving, etc.....	49 85							
17	Land.....								
18	Buildings and reservoirs.....								
19	Payment of loans.....								
20	.....							
21	Totals.....	\$ 1,806 20	\$ 8,537 26	\$ 21,192 63	\$ 13,768 90	\$ 10,969 29	\$ 11,486 18	\$ 10,436 49	\$ 12,778 47

TABLE NO. 93.—Continued.
THE FIRE FUND. LOCAL ACCOUNT OF DISBURSEMENTS, 1897.

No. of Appr.	Purpose of Appropriation.	Engine Co. No. 7.	Engine Co. No. 8.	Engine Co. No. 9.	Engine Co. No. 10.	Engine Co. No. 11.	Engine Co. No. 12.	Engine Co. No. 13.	Engine Co. No. 14.
1	Interest.....	\$ 10,061 67	\$ 9,914 14	\$ 10,069 58	\$ 9,115 08	\$ 9,119 76	\$ 9,860 24	\$ 9,138 56	\$ 10,917 74
2	Officers' and employes' salaries.....								
3	.....							
4	Office furniture and fixtures.....			1 00		78 75		11 00	6 00
5	.....		6 00						
6	.....		16 50	16 50					1 25
7	.....							
8	.....							
9	.....							
10	.....	150 39	249 26	259 96	197 11	253 96	246 59	168 06	228 06
11	.....	303 27	331 60	390 56	429 46	321 77	409 61	218 54	1404 75
12	.....	94 26	158 07	24 03	10 73	9 25	41 63	59 94	199 71
13	.....	146 97	128 26	221 44	68 34	7 89	34 02	71 42	80 83
14	Miscellaneous supplies.....	36 20	54 52	52 74	52 61	70 71	53 05	39 94	66 70
15	.....							
16	Contingent.....	60 49							
17	Grading, paving, etc.....						6 20		
18	Land.....								
19	Buildings and reservoirs.....		38 33						
20	Payment of loans.....								
21	.....							
	Totals.....	\$10,765 18	\$10,868 68	\$11,035 60	\$ 9,873 26	\$ 9,661 49	\$10,653 34	\$ 9,707 47	\$12,006 04

TABLE No. 93.—Continued.
THE FIRE FUND.—LOCAL ACCOUNT OF DISBURSEMENTS, 1897.

No. of Ams.	Purpose of Appropriation.	Engine Co. No. 15.	Engine Co. No. 16.	Engine Co. No. 17.	Engine Co. No. 18.	Engine Co. No. 19.	Engine Co. No. 20.	Engine Co. No. 21.	Engine Co. No. 22.	Engine Co. No. 23.
1	Interest.....	\$ 9,023 90	\$ 9,534 04	\$ 10,047 05	\$ 11,894 25	\$ 9,775 54	\$ 9,081 29	\$ 9,524 98	\$ 9,124 06	\$ 9,122 19
2	Officers' and employes' salaries.....									
3	.....								
4	Office furniture and fixtures.....		8 00		6 00	24 00	47 80	6 75		53 15
5	.....			5 00						9 00
6	.....								
7	.....								
8	.....								
9	.....								
10	.....	1,100 30	203 30	298 99	226 10	233 25	202 29	786 06	202 81	212 27
11	.....		309 67	653 97	553 00	212 25	270 19		380 62	323 25
12	.....	557 94	12 64	98 82	46 70	47 39	38 53	193 56	70 46	1 99
13	.....	33 60	41 95	102 43	11 98	10 12	5 50	44 15	6 90	1 77
14	Miscellaneous supplies.....	168 26	54 51	39 64	33 02	19 88	19 55	138 76	24 66	25 20
15	.....								
16	Contingent.....									
17	Grading, paving, etc.....							31 89		
18	Land.....							64 45		79 60
19	Buildings and reservoirs.....									
20	Payment of loans.....									
21	.....								
	Totals.....	\$10,883 11	\$10,164 11	\$11,245 30	\$12,771 43	\$10,342 43	\$ 9,664 64	\$10,791 12	\$ 9,809 50	\$ 9,826 53

TABLE No. 93.—Continued.
THE FIRE FUND.—LOCAL ACCOUNT OF DISBURSEMENTS, 1897.

No. of Appr.	Purpose of Appropriation.	Engine Co. No. 24.	Engine Co. No. 25.	Engine Co. No. 26.	Hook and Ladder Co. No. 1.	Hook and Ladder Co. No. 2.	Hook and Ladder Co. No. 3.	Hook and Ladder Co. No. 4.	Hook and Ladder Co. No. 5.	Hook and Ladder Co. No. 6.
1	Interest.....	\$ 8,216 66	\$ 9,025 51		\$ 14,218 80	\$ 14,110 32	\$ 9,611 13	\$ 8,843 07	\$ 9,722 18	\$ 10,685 56
2	Officers' and employees' salaries.....									
3	.....								
4	.....								
5	.....		9 00		12 00		6 00		4 25	
6	.....	6 00	6 00		6 00				36 00	
7	.....								
8	.....	3,250 00								4 50
9	.....								
10	.....	180 02	306 09						122 35	
11	.....	302 01	339 79		201 95	110 55	62 60	50 00	206 69	91 64
12	.....	209 40	10 17		26 56	234 44	6 86	19 19	10 37	8 67
13	.....	41 69	93 67		6 62	19 65	3 47		213 43	8 46
14	Miscellaneous supplies.....	56 89	25 88		98 92	72 74	24 80	29 84	32 34	33 54
15	.....								
16	.....								
17	.....								
18	.....		14 40							
19	.....								
20	Payment of loans.....			3,477 13						
21	.....								
	Totals.....	\$12,356 66	\$ 9,850 51	\$ 3,477 13	\$14,567 67	\$14,607 70	\$ 9,704 76	\$ 8,942 10	\$10,349 61	\$10,827 27

TABLE No. 93.—Continued.
THE FIRE FUND.—LOCAL ACCOUNT OF DISBURSEMENTS, 1897.

No. of Appr.	Purpose of Appropriation.	Hook and Ladder Co. No. 7.	Hook and Ladder Co. No. 8.	Hook and Ladder Co. No. 9.	Hose Co. No. 1.	Chief.	1st Asst.-Chief.	2nd Asst.-Chief.	3d Asst.-Chief.	4th Asst.-Chief.
1	Interest.....	\$ 9,653 89	\$ 5,943 98	\$ 6,893 42	\$ 4,999 24	\$ 2,500 08	\$ 2,100 00	\$ 1,899 84	\$ 1,800 00	\$ 1,775 04
2	Officers' and employees' salaries.....									
3	.....								
4	Office furniture and fixtures.....	2 00				12 50				
5	.....								
6	.....								
7	.....					1 55				2 75
8	.....								
9	.....					1 67				
10	.....								
11	.....	90 18	36 50	68 49	158 68	56 00	87 00	76 35	57 50	67 75
12	Repairs to buildings.....	170 94		32 45	56 44	59 50	43 00	68 60	15 38	19 20
13	Miscellaneous supplies.....	13 28	7 11	2 65	81		1 00			2 02
14	.....	34 67	13 65	23 26	12 71	66	5 66	75	4 35	13
15	Contingent.....									
16	Grading, paving, etc.....					30 00				
17	Land.....									
18	Buildings and reservoirs.....									
19	Payment of loans.....									
20	.....								
21	.....								
	Totals.....	\$ 9,974 86	\$ 6,001 24	\$ 6,986 27	\$ 5,197 88	\$ 2,661 96	\$ 2,187 26	\$ 2,045 44	\$ 1,878 08	\$ 1,866 89

TABLE No. 93.—Continued.
THE FIRE FUND.—LOCAL ACCOUNT OF DISBURSEMENTS, 1897.

No. of Appr.	Purpose of Appropriation.	5th Asst. Chief.	Building Inspector.	Boiler Inspector.	Examiner of Engineers.	Electrician	Training Stable.	Fire Wardens.	Undivided	Totals.
1	Interest.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$12,350 00	\$ 12,350 00
2	Officers' and employees' salaries.....	1,689 92	6,100 03	2,100 00	1,500 00	1,500 00	1,920 00	2,000 00	4,539 84	260,629 59
3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
4	Office furniture and fixtures .....	.....	7 00	.....	.....	7 00	.....	.....	4 00	35 50
5	.....	.....	.....	.....	.....	.....	.....	.....	84 32	205 97
6	.....	.....	.....	.....	.....	.....	.....	.....	4,741 08	5,775 73
7	.....	.....	.....	9 00	.....	.....	.....	.....	\$,473 25	3,642 51
8	.....	.....	.....	.....	.....	.....	.....	.....	.....	3,350 00
9	.....	.....	117 22	30 72	15 88	6 26	.....	.....	198 70	510 18
10	.....	.....	.....	.....	.....	.....	80 17	.....	196 29	8,202 99
11	.....	48 75	.....	28 25	.....	.....	661 53	.....	.....	12,831 85
12	.....	75 45	.....	.....	.....	.....	.....	.....	450 72	3,851 49
13	Miscellaneous supplies .....	.....	51 23	.....	.....	.....	180 51	.....	597 60	2,464 43
14	.....	.....	21 97	.....	10 00	3 00	63 70	.....	2,773 60	5,367 85
15	Contingent .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
16	.....	.....	25 00	.....	.....	.....	.....	.....	550 83	748 44
17	.....	.....	.....	.....	.....	.....	.....	.....	103 32	269 37
18	.....	.....	.....	.....	.....	.....	.....	.....	2,500 00	2,500 00
19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
20	Payment of loans .....	.....	.....	.....	.....	.....	.....	.....	315 23	3,830 09
21	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Totals	\$ 1,824 12	\$ 6,332 50	\$ 2,165 97	\$ 1,525 88	\$ 1,516 26	\$ 2,905 71	\$ 2,000 00	\$32,876 82	\$155,978 09

TABLE No. 94.

DREDGING FUND.—CLASSIFIED ANALYSIS.

(For itemized analysis, see table No. 95.)

Cash on hand January 1, 1897.....	\$	238 97
RECEIPTS.		
Received from general tax.....	\$13,587 31	
Received from special assessment.....	13,985 49	
Total tax.....	\$27,572 80	
Received from transfers.....	5,100 00	
Total receipts.....		32,672 80
Total to be accounted for.....		\$32,911 77
DISBURSEMENTS.		
Paid for supplies.....	\$25,150 47	
Total operating expenses.....	\$25,150 47	
Paid transfers.....	\$ 2,000 00	
Total transfers.....	2,000 00	
Total disbursements.....		27,150 47
Cash on hand January 1, 1898.....		\$5,761 30
ASSETS.		
Cash.....	\$5,761 30	
Total assets.....		\$5,761 30
LIABILITIES.		
No liabilities.....		.....
Excess of assets.....		\$5,761 30

TABLE NO. 95.

DREDGING FUND.—ITEMIZED ANALYSIS.

(For classified analysis, see table No. 94.)

Cash on hand January 1st, 1897.....	\$ 238 97
Received from general levy of 10 cents on each \$1,000 on Duplicate of 1896.....	13,587 31
Received from special assessment of 25 cents per foot front on river property, as per Ordinance No. 7317.....	13,985 49
Received from transfer from River and Harbor fund(*).....	5,100 00
Total to be accounted for.....	32,911 77
Paid W. E. Rooney, contractor, estimate No. 8 and final for 1896, and estimate Nos. 1 to 8 for 1897 under contract No. 1654.....	\$ 22,346 43
Paid inspection.....	2,351 73
Paid for miscellaneous bills and supplies.....	452 31
Paid transfer to unclaimed money fund (†).....	2,000 00
Total disbursements.....	27,150 47
Cash on hand January 1st, 1898.....	\$ 5,761 30

*This transfer was reimbursement for money paid from Dredging Fund in 1896 for land for river widening purposes (see Auditor's report for 1896, table No. 98.)

†This transfer was return of advance made from unclaimed money fund in 1896 (see Auditor's report for 1896, table No. 98.)

TABLE No. 96.

LIGHTING FUND.—CLASSIFIED ANALYSIS.

(For itemized analysis, see table No. 97.)

Cash on hand January 1, 1897.....	\$13,293 76
RECEIPTS.	
Received from general tax.....	\$237,777 98
Total tax.....	\$237,777 98
Received from fees.....	\$1,043 47
Total earnings.....	1,043 47
Received from transfers.....	43 00
Total receipts.....	238,864 45
Total to be accounted for.....	\$252,158 21
DISBURSEMENTS.	
Paid for supplies.....	\$235,325 68
Total operating expenses	\$235,325 68
Total disbursements.....	235,325 68
Cash on hand January 1, 1898.....	\$16,832 53
ASSETS.	
Cash.....	\$16,832 53
Total assets.....	\$16,832 53
LIABILITIES.	
No liabilities.....	.....
Excess of assets.....	\$16,832 53

TABLE NO. 97.

LIGHTING FUND.—ITEMIZED ANALYSIS.

(For classified analysis, see table No. 96.)

Cash on hand January 1st, 1897.....	\$ 13,298 76
Received from general levy \$1.75 on each \$1,000 on tax duplicate of 1896.....	237,777 98
Received from bills for lighting R. R. property	1,043 47
Received from transfers from Gas Inspection Fund (Ordinance No. 18761).....	48 00
	<hr/>
To be accounted for	\$252,156 21
Paid for street lighting—Gas	\$100,956 54
Paid for street lighting—Electricity.....	62,758 20
Paid for street lighting—Vapor.....	67,416 79
Paid for care of lamps, new posts, etc., including gas inspectors' salary.	4,194 15
	<hr/>
Total disbursements.....	235,325 68
	<hr/>
Cash on hand January 1st, 1898.....	\$ 16,832 53

TABLE No. 98.

STREET INTERSECTIONS FUND.—CLASSIFIED ANALYSIS.

Cash on hand January 1st, 1897.....	\$ 5,474 19
RECEIPTS.	
Received from general levy of 38 cents on each \$1,000 on duplicate of 1896.....	\$51,631 79
Total tax.....	\$51,631 79
Received from transfers from various special funds (pavements) on account of surplus of advances to same.....	\$4,726 57
Total transfers.....	4,726 57
Total receipts.....	\$56,358 36
Total to be accounted for.....	\$61,832 55
DISBURSEMENTS.	
Paid for grading and paving street intersections.....	\$3,079 68
Total permanent improvements.....	\$ 3,079 68
Paid transfers to various street improvement funds (pavements) to pay City's portion of same.....	\$27,048 09
Total transfers.....	27,048 09
Total disbursements.....	30,127 77
Cash on hand January 1st, 1898.....	\$31,704 78
ASSETS.	
Cash.....	\$31,704 78
Total assets.....	\$31,704 78
LIABILITIES.	
No liabilities.....	.....
Excess of assets.....	\$31,704 78

TABLE NO. 99.

PAVING FUND.—CLASSIFIED ANALYSIS.

Cash on hand January 1st, 1897.....		\$ 54,402 63
RECEIPTS.		
Received from general levy of 70 cents on each \$1,000 on tax duplicate of 1896.....	\$ 95,111 19	
Received from special assessments (*).....	487 68	
Total tax		\$ 95,598 87
Received from transfers from various Street Im- provement Funds (return of advances).....	\$ 1,757 46	
Total transfers		\$ 1,757 46
Total receipts.....		\$ 97,356 33
Total to be accounted for.....		\$151,758 96
DISBURSEMENTS.		
Paid advances to various Street Improvement Funds (pavements) for City's portion of same.....	\$103,424 13	
Total transfers		\$103,424 13
Total disbursements.....		103,424 13
Cash on hand January 1st, 1898.....		\$ 48,334 83
ASSETS.		
Cash.....	\$ 48,334 83	
Total assets.....		48,334 83
LIABILITIES.		
No liabilities . . . . .		.....
Excess of assets.....		\$ 48,334 83

* This amount was from special assessments (delinquent) on various special paving funds, on which the money had been advanced from the Paving Fund.

TABLE NO. 100.

INTEREST FUND.—CLASSIFIED ANALYSIS.

(For itemized analysis, see table No. 101.)

Cash on hand January 1st, 1897.....		\$32,407 06
RECEIPTS.		
Received from general tax.....	\$135,873 15	
Total tax.....		\$135,873 15
Received from interest.....	\$161,182 44	
Total earnings.....		161,182 44
Total receipts.....		297,055 59
Total to be accounted for.....		\$329,462 65
DISBURSEMENTS.		
Paid fixed charges.....	\$112,535 00	
Total operating expenses.....		\$112,535 00
Paid transfers.....		150,330 00
Total disbursements.....		262,865 00
Cash on hand January 1st, 1898.....		\$66,597 65
ASSETS.		
Cash.....		\$66,597 65
Total assets.....		\$66,597 65
LIABILITIES.		
No liabilities.....		.....
Excess of assets.....		\$66,597 65

TABLE NO. 101.

INTEREST FUND.—ITEMIZED ANALYSIS.

(For classified analysis, see table No. 100.)

Cash on hand January 1st, 1897.....	\$ 32,407 06
Received from general levy of \$1.00 on each \$1,000 on tax duplicate of 1896.....	135,878 15
Received from Euclid Avenue National Bank, interest on average daily balances..	28,831 80
Received from Dime Savings & Banking Co., interest on average daily balances..	27,267 58
Received from State National Bank, interest on average daily balances.....	24,115 67
Received from premium on \$250,000 River and Harbor bonds sold (table No. 19)..	20,709 00
Received from premium on \$100,000 Police renewal bonds sold (table No. 19).....	6,125 00
Received from premium on \$45,000 Bridge Repair bonds sold (table No. 19).....	1,498 50
Received from premium on \$200,000 Intercepting Sewer bonds sold (table No. 19)..	14,977 77
Received from premium on \$90,000 Bridge Renewal bonds sold (table No. 19).....	4,550 00
Received from premium on \$199,000 Bridge bonds sold (table No. 19).....	23,068 60
Received from accrued interest on above bonds sold (table No. 19).....	9,968 52
Total to be accounted for.....	\$329,462 65
Paid interest on general bonds.....	\$112,535 00
Transferred to Bridge Fund to pay interest on Bridge bonds.....	131,230 00
Transferred to Police Fund to pay interest on Police bonds.....	5,250 00
Transferred to Fire Fund to pay interest on Fire bonds.....	12,850 00
Transferred to Walworth Opening Fund to pay interest on special bonds.....	1,500 00
Total disbursements.....	262,865 00
Cash on hand January 1st, 1898.....	\$66,597 65

TABLE NO. 102.

GENERAL SINKING FUND.—CLASSIFIED ANALYSIS.

(For itemized analysis, see table No. 103.)

Cash on hand January 1, 1897.....	\$	32 50
RECEIPTS.		
Received from general tax.....	\$	33,968 28
Total tax.....	\$	33,968 28
Received from transfers.....		5,550 72
Total receipts.....	\$	39,519 00
Total to be accounted for.....	\$	39,551 50
DISBURSEMENTS.		
Paid bonds.....	\$	26,000 00
Total loans.....	\$	26,000 00
Paid transfers.....		10,800 00
Total disbursements.....	\$	36,800 00
Cash on hand January 1, 1898.....	\$	2,751 50
ASSETS.		
Cash.....	\$	2,751 50
Total assets.....	\$	2,751 50
LIABILITIES.		
Funded debt bonds (table No. 45).....		\$2,364,650 00
Excess of liabilities.....		\$2,361,898 50

NOTE.—This Fund is maintained by annual levy of sufficient amount to redeem such General bonds maturing during the year as may be deemed to the best interests of the city to pay at maturity. Surplus of "Unclaimed Money" (table No. 111) is also turned into this Fund from time to time whenever such surplus exceeds the amount of \$2,000. Whatever balance remains after paying bonds as above, is retained in the City Treasury to credit of this Fund to apply on following year's obligations.

TABLE NO. 103.

GENERAL SINKING FUND.—ITEMIZED ANALYSIS.

(For classified analysis, see table 102.)

Cash on hand January 1, 1897.....	\$	32 50
Received from general levy of \$0.25 on each \$1,000 on tax duplicate of 1896.....		33,968 28
Received from transfer from Viaduct Sinking Fund (return of advance).....		3,000 00
Received from transfer from Brooklyn Fund (return of advance).....		2,550 72
		<hr/>
Total to be accounted for.....	\$	39,551 50
Paid funded debt bonds matured.....	\$	26,000 00
Paid transfer to Walworth opening to pay special bonds.....		10,000 00
Paid transfer to unclaimed money fund (return of funds).....		800 00
		<hr/>
Total disbursements.....		\$ 36,800 00
		<hr/>
Cash on hand January 1, 1898.....	\$	2,751 50

TABLE No. 104.

VIADUCT SINKING FUND.—CLASSIFIED ANALYSIS.

(For itemized analysis, see table No. 105.)

Cash in City Treasury, January 1, 1897.....	\$	4 95
Assets in hands of Commissioners, January 1, 1897.....		449,430 96
Total cash	\$	449,435 91
RECEIPTS.		
Received from general tax	\$203,809 82	
Total taxes.....	\$203,809 82	
Received from interest.....	\$ 18,437 64	
Total earnings.....	18,437 64	
Total receipts.....	\$	222,247 46
Total to be accounted for.....	\$	671,683 37
DISBURSEMENTS.		
Paid transfers.....	\$228,000 00	
Total disbursements.....	\$	228,000 00
Cash in City Treasury, January 1, 1898.....	\$	814 77
Assets in hands of Commissioners, January 1, 1898.....		442,568 60
Total cash (balance).....	\$	443,683 37
ASSETS.		
Cash in City Treasury.....	\$	814 77
Cash in hands of Commissioners.....		14,658 60
Cleveland city bonds in hands of Commissioners.....		401,000 00
Cleveland city notes in hands of Commissioners		27,210 00
Total assets.....	\$	443,683 37
LIABILITIES.		
Viaduct bonds outstanding (table No. 45).....	\$845,000 00	
Canal bonds outstanding (table No. 45).....	161,000 00	
Total liabilities.....	\$1,006,000 00	
Excess of liabilities.....	\$	562,316 63

NOTE.—This fund is maintained by annual levy of sufficient amount to meet maturing Viaduct Bonds and Canal Bonds (see table No. 45). The amounts thus raised are invested by the Sinking Fund Commissioners from time to time in City of Cleveland securities (see table No. 132), and upon the maturity of said Viaduct Bonds or Canal Bonds a sufficient amount is paid into the City Treasury, upon requisition by the City Auditor, by the Sinking Fund Commissioners, from the funds so raised and invested, to meet such bonds at maturity.

TABLE No. 105.

VIADUCT SINKING FUND.—ITEMIZED ANALYSIS.

(For classified analysis, see table No. 104.)
 (For detail as to transactions, see table No. 132.)

Cash in City Treasury January 1, 1897.....	\$	4 95	
Assets in hands of Commissioners January 1, 1897.....		449,430 96	
Total cash.....			\$449,435 91
Received from general levy of \$1.50 on each \$1,000 on tax duplicate of 1896.....		203,809 82	
Received from interest on bonds in hands of Commissioners.....		16,000 00	
Received from interest on city notes in hands of Commissioners.....	\$	2,137 15	
Less accrued interest paid.....		83,54	
			2,053 61
Received from interest on deposits.....			384 03
Total to be accounted for.....			\$ 671,683 37
Paid transfer to Bridge Fund to pay Viaduct bonds.....	\$	225,000 00	
Paid transfer to General Sinking Fund (return of advance of 1896).....		3,000 00	
Total disbursements.....			\$ 228,000 00
Cash in City Treasury January 1, 1898.....	\$	814 77	
Assets in hands of Commissioners January 1, 1898.....		442,868 60	
Total cash			\$ 443,683 37

TABLE No. 106.

SINKING FUND OF 1862.—CLASSIFIED ANALYSIS.

(For detail as to transactions, see table No. 132.)

Assets in hands of Commissioners January 1, 1897.....		\$1,368,310 29
RECEIPTS.		
Received from dividends on stock.....	\$ 10,800 00	
Received from interest on bonds.....	\$ 59,720 00	
Less accrued interest paid.....	8,333 33	
		51,386 67
Received from interest on city notes.....		12,096 17
Received from interest on deposits.....		381 57
		74,664 41
Total interest.....		74,664 41
Total receipts.....		74,664 41
Total to be accounted for.....		\$1,442,974 70
DISBURSEMENTS.		
Paid salary of clerk and rent of lock box.....	\$ 650 00	
Total fixed charges.....	\$ 650 00	
Total disbursements.....		\$ 650 00
Assets in hands of Commissioners January 1, 1898.....		\$1,442,324 70
ASSETS.		
Stock L. S. & M. S. R. R. in hands of Commissioners.....	\$ 180,000 00	
Bonds C. & A. Bridge Co. in hands of Commissioners.....	94,000 00	
Bonds Cleveland City in hands of Commissioners.....	896,000 00	
Notes Cleveland City in hands of Commissioners.....	271,896 00	
Cash in hands of Commissioners.....	428 70	
Total assets.....		\$1,442,324 70
LIABILITIES.		
No liabilities.....		.....
Excess of assets.....		\$1,442,324 70

NOTE.—This Fund represents the accretion of investments by the city of Cleveland in certain railroad stocks and bonds, which investments were made in order to bring such railroads into and through the limits of the city. Such investments and all business connected therewith were reorganized in 1862 by acts of the General Assembly of the State of Ohio passed March 28, 1862, and ordinances of the City Council in accordance therewith, and placed under the control of the "Sinking Fund Commission." Such laws and ordinances have been from time to time amended, and now stand as per Revised Ordinances, Chapter VII. Such funds may be used for the redemption of City of Cleveland Bonds not otherwise specially provided for. The amounts of such Funds are invested from time to time by the Sinking Fund Commissioners as shown above and in table No. 132.

TABLE No. 107.

NEW CITY HALL SINKING FUND.—CLASSIFIED
ANALYSIS.

(For detail as to transactions, see table No. 132.)

Cash in City Treasury January 1, 1897.....	\$ 10,977 84	
Assets in hands of Commissioners January 1, 1897.....	191,063 81	
Total cash... ..		\$202,041 65
RECEIPTS.		
Received from licenses (table No. 11).....	\$58,310 97	
Received from interest on bonds..... \$940 00		
Less accrued interest paid..... 65 75	\$ 874 25	
Received from interest on notes..... 9,923 25		
Received from interest on deposits..... 477 48		
Total interest.....	11,274 98	
Total earnings.....	69,585 95	
Total receipts.		69,585 95
Total to be accounted for.....		\$271,627 60
DISBURSEMENTS.		
No disbursements.....		.....
Assets in hands of Commissioners January 1, 1898.....		\$271,627 60
ASSETS.		
Bonds Cleveland City in hands of Commissioners.....	\$ 20,000 00	
Notes Cleveland City in hands of Commissioners.....	251,466 00	
Cash in hands of Commissioners.....	161 60	
Total assets.....		\$271,627 60
LIABILITIES.		
No liabilities.....		.....
Excess of assets.....		\$271,627 60

NOTE.—Under the provisions of Section 2, of an ordinance passed June 13, 1892, by the City Council (Revised Ordinances, Chap. IV., subhead 3, § 2), The Cleveland Gas Light & Coke Co. and The People's Gas Light Co., in consideration of rights and privileges granted to said companies by such ordinance (franchise), said companies pay into the City Treasury, semi-annually, an amount equal to 6½ per cent. of their gross receipts, for the period of ten years from and after the passage of such ordinance. The money thus raised, as above, is, under the provisions of ordinances passed June 27, 1892, and April 2, 1895, turned over to the Sinking Fund Commissioners, to be by them properly invested, under the title of the "New City Hall Sinking Fund." Such funds, together with all accretions thereto, to be used in the payment of bonds and interest "which may be issued for the purpose of paying the cost and expense of erecting and furnishing a City Hall for said city." (Revised Ordinances, Chap. VII., subhead 4, Div. 5 and 6, pages 549, 550.)

TABLE NO. 108.

ART GALLERY FUND.—CLASSIFIED ANALYSIS.

Cash on hand January 1, 1897.....	\$5,000 00
RECEIPTS.	
No receipts	
DISBURSEMENTS.	
No disbursements.....	
Cash on hand January 1, 1898.....	\$5,000 00
ASSETS.	
Cash.....	\$5,000 00
LIABILITIES.	
Deposits.....	\$5,000 00

NOTE.—The above sum of \$5,000 was deposited in the City Treasury April 20, 1891, in accordance with the following resolution adopted by the Common Council May 6, 1887, viz:

“ By Councilman Herrick: Whereas, the late Mary A. Warner of Painesville, Lake County, Ohio, by her last will and testament, of which she appointed Oliver K. Brooks to be the executor, left to the City of Cleveland \$5,000 towards the building of an art gallery and by the tenth clause thereof gave to said art gallery the following pictures called ‘Spanish Flower Girl,’ ‘Vestal Virgin,’ ‘Peruvian School Girl,’ a carving in ivory, two old views off coast of England and ‘Tired of Knitting;’ and whereas the said Oliver K. Brooks is anxious to deliver to the City of Cleveland the same at such times as may serve his convenience.

Resolved, That the City of Cleveland accepts said bequests for the said fine art gallery of the said \$5,000 and the said pictures and the Mayor of the City is hereby authorized to receive the same and receipt to the executor, Oliver K. Brooks, therefor.

The resolution was adopted.”

Said sum is now held in trust for above purpose. The pictures alluded to in above resolution are in the custody of the Mayor.

TABLE NO. 109.

CITY STOREROOM FUND.—CLASSIFIED ANALYSIS.

Cash on hand January 1, 1897.....	\$1,155 31
RECEIPTS.	
Received from sale of supplies to various departments of the city..	\$5,473 38
Total receipts.....	\$5,473 38
Total to be accounted for.....	\$6,628 69
DISBURSEMENTS.	
Paid for supplies	\$5,229 75
Total investments.....	\$5,229 75
Total disbursements.....	\$5,229 75
Cash on hand January 1, 1898.....	\$1,398 94
ASSETS.	
Cash.....	\$1,398 94
Investments (table 43).....	2,601 06
Total assets.....	\$4,000 00
LIABILITIES.	
No liabilities.....	.....
Excess of assets.....	\$4,000 00

NOTE.—The sum of \$4,000 was set aside from the General Fund in 1892, by the City Council, to be used in the purchase of stationery and office supplies in quantities for the use of the departments of the city, thus obtaining the benefit of wholesale prices on such purchases. Such supplies are kept in the City Storeroom (Room 206 City Hall) and given out, as called for, to the departments, at cost price, on pass-books. When these pass-books are filled, vouchers are issued by the departments reimbursing the storeroom for such supplies furnished.

TABLE No. 110.

INSPECTION FUND.—CLASSIFIED ANALYSIS.

Cash on hand January 1, 1897.....	\$	203 27
RECEIPTS.		
Received from bills from various parties for inspection of private work.....	\$	2,867 52
Total fees.....	\$	2,867 52
Total receipts.....		2,867 52
Total to be accounted for.....	\$	3,070 79
DISBURSEMENTS.		
Paid for inspection of private work.....	\$	2,762 00
Total supplies.....	\$	2,762 00
Total disbursements.....		2,762 00
Cash on hand January 1, 1898.....	\$	308 79
ASSETS.		
Cash.....	\$	308 79
LIABILITIES.		
No liabilities.....		
Excess of assets.....	\$	308 79

NOTE.—When it is desired by private parties to tear up paved streets in order to repair sewer or gas pipes or lay conduits, or wires, such pavements must be relaid at the expense of the one making such opening under the direct supervision of the city. The inspectors supervising such work for the city are paid for their time from this "Inspection" Fund, and a bill rendered for same to the parties for whom such work was done. When such bills are paid the money is placed to credit of this "Inspection" Fund.

TABLE No. 111.

UNCLAIMED MONEY FUND.—CLASSIFIED ANALYSIS.

Cash on hand January 1, 1897.....	\$1,958 99
RECEIPTS.	
Received from special assessments (viz., amounts which had been advanced to various street improvement funds on account of delinquent taxes, and were paid in 1897).....	\$3,110 04
Received from unclaimed amounts (refunding certificates, etc.) turned into City Treasury.....	\$1,310 42
Less various amounts returned.....	1,187 45
	<u>122 97</u>
Total special tax.....	3,233 01
Total receipts	<u>3,233 01</u>
Total to be accounted for.....	\$5,192 00
DISBURSEMENTS.	
Paid advances to various funds to cover temporary shortages	\$11,800 84
Less amounts returned to fund on account of same.	6,856 30
	<u>\$4,944 54</u>
Total transfers.....	\$4,944 54
Total disbursements.....	<u>4,944 54</u>
Cash on hand January 1, 1898.....	\$247 46
ASSETS.	
Cash.....	\$247 46
LIABILITIES.	
No liabilities.....	.....
Excess of assets.....	<u>\$247 46</u>

NOTE.—Under authority of an act of the General Assembly, passed March 8, 1888, and § 108 of the Revised Ordinances of the City of Cleveland, amounts of tax refundings and uncalled-for claims against the city, the address of the payee being unknown, are, after being "posted in a conspicuous place in the auditor's office for two years," paid into the "Unclaimed Money" Fund. Under the above authorities, such money in such fund may be used to advance temporarily to various funds which are "short" on account of delinquent taxes, which advances are returned to this fund when such delinquent tax is paid in. When the surplus in this fund exceeds the amount of \$2,000, such surplus is turned into the General Sinking Fund.

TABLE No. 112.

HOME TELEPHONE CO.—ANALYSIS.

<hr/>	
Cash on hand January 1, 1897.....	\$5,000 00
RECEIPTS.	
No receipts.....	
DISBURSEMENTS.	
Returned deposit (see table No. 35).....	\$5,000 00
Cash on hand January 1, 1898.....	
<hr/>	

NOTE.—On April 30, 1896, The Home Telephone Co. deposited with the City Treasurer the sum of \$5,000 as a guarantee of its fulfillment of the provisions of its agreement with the city regarding the introduction of its telephone system, as set forth in Ordinance No. 9287B, §11. This amount was held in trust as above until February 27, 1897, when, all the terms of such agreement having been complied with, such amount was returned to said Home Telephone Co.

TABLE No. 113.

GAS INSPECTION FUND.—CLASSIFIED ANALYSIS.

Cash on hand January 1, 1897.....	\$42 00
RECEIPTS.	
Received from fees for inspecting gas meters....	1 00
Total to be accounted for.....	\$43 00
DISBURSEMENTS.	
Paid transfer to Lighting Fund (Ordinance No. 18761).....	43 00
Cash on hand January 1, 1898.....	

NOTE.—Section 392 of the Revised Ordinances of the City of Cleveland provided that:

“Upon the written application of any consumer of gas within the city, made to the Director of Public Works and accompanied by an inspection fee of one dollar, the inspector of gas shall inspect and determine the correctness of any gas meter designated in such application. Upon the receipt of such consumer's application and fee the Director of Public Works shall require the gas company owning such meter to forthwith disconnect and remove the same under the supervision of the inspector of gas to the laboratory of said inspector, and, if necessary, supply such consumer with another meter for use during the time required for such inspection; and if upon such inspection the said inspector shall find such meter “fast” or that the same registers a greater volume of gas than actually passes it, the said inspection fee shall be returned to the person making the application, and in such event the gas company furnishing the gas to such meter shall pay into the City Treasury, upon demand of the Director of Public Works, the sum of fifty cents; provided that if upon such inspection the meter so inspected shall be found to register no greater volume of gas than actually passes it, the said inspection fee of one dollar shall be paid by the said Director into the City Treasury, and to the credit of a fund called the Gas Inspection Fund; provided, further, that for the expense of disconnecting and resetting each meter so as aforesaid inspected and found to register no greater volume of gas than actually passes it, such gas company shall receive and be paid from said fund the sum of fifty cents.”

On December 13, 1897, the City Council passed Ordinance No. 18761, amending the above by striking out the words “a fund called the Gas Inspection Fund” and substituting therefor the words “the Lighting Fund,” and by adding the following clause, viz:

SEC. 2. That the City Auditor be and he is hereby authorized to transfer the sum of \$43, which sum is the entire collection for “gas inspection” to date from the “gas inspection” fund to the Lighting Fund.

TABLE No. 114.

BROOKLYN FUNDS.—CLASSIFIED ANALYSIS.

Cash on hand January 1, 1897.....	\$	961 37
RECEIPTS.		
Received from special assessments.....	\$10,871 41	
Total tax.....	\$10,871 41	
Received from transfer from paving fund,.....	\$11,000 00	
Total transfers	11,000 00	
Total receipts.....		21,871 41
Total to be accounted for.....		\$22,832 73
DISBURSEMENTS.		
Paid interest on Brooklyn Bonds... ..	\$ 2,737 51	
Total fixed charges.....	\$ 2,737 51	
Paid miscellaneous bills.....	\$ 242 56	
Total supplies.....	242 56	
Paid Brooklyn bonds matured.....	\$ 9,716 66	
Total loans.....	9,716 66	
Paid transfers to various street improvement funds (*)	\$ 7,585 33	
Paid transfer to general sinking Fund (†).....	2,550 72	
Total transfers.....	10,136 05	
Total disbursements.....		22,832 73
Cash on hand December 31, 1897.....		.....

*By these transfers all Brooklyn street improvement funds were made city funds, and the so-called "Brooklyn Fund" wiped out.

†This transfer was a return of part of the advance made from General Sinking Fund to "Brooklyn Funds" in 1896 (see Auditor's report for 1896, table No. 122.)

NOTE.—Under the terms and conditions made at the annexation of Brooklyn village to the city of Cleveland said city of Cleveland took all assets and assumed all liabilities of said Brooklyn village. Among such liabilities were various overdrawn accounts of street improvement funds which it was impossible for the city of Cleveland to carry in that shape, on account of § 16 of the "Depositary Law" (89-O. L. 228—85-O. L. 197), providing especially against overdrawn accounts of any description. It was therefore agreed that all Brooklyn street improvement funds should be held as one city fund to be known as "Brooklyn Fund" (the total of such funds having a credit cash balance) until such time as incoming taxes or advances from the city general funds should make good such overdrafts. Such advances were made during the year 1897, and the Brooklyn street improvement funds embraced among the city of Cleveland street improvement funds (see tables Nos. 126, 127, 128, 129 and 131), thus wiping out the temporary "Brooklyn Fund."

TABLE NO. 115.

WEST CLEVELAND FUNDS.—CLASSIFIED ANALYSIS.

Cash on hand January 1, 1897.....		\$4,556 32
Received from special assessments	\$5,213 63	
Less abatements paid.....	70 17	
Total tax.....	\$5,143 46	
Total receipts		\$5,143 46
Total to be accounted for.....		\$9,699 78
Paid interest on West Cleveland bonds.....	\$2,205 63	
Total fixed charges	\$2,205 63	
Paid for clerical work on taxes.....	\$ 10 34	
Total supplies	10 34	
Paid West Cleveland bonds matured.....	\$3,258 00	
Total loans	3,258 00	
Paid transfer to Paving Fund (return of advance)	\$ 925 12	
Paid transfers to various Street Improvement Funds (*).....	3,300 69	
Total transfers	\$4,225 81	
Total disbursements.....		\$9,699 78
Cash on hand January 1, 1898. ,.....		.....

* By these transfers all West Cleveland street improvement funds were made city funds, and the so-called "West Cleveland Fund" wiped out.

NOTE.—Under the terms and conditions made at the annexation of West Cleveland Village to Cleveland City, said City of Cleveland took all assets and assumed all liabilities of said Village of West Cleveland.

Among such liabilities were various overdrawn accounts of street improvement funds, which it was impossible for the City of Cleveland to carry in that shape on account of § 16 of the "Depositary Law" (89 O. L. 228, 85 O. L. 197), providing especially against overdrawn accounts of any description. It was therefore agreed that all West Cleveland street improvement funds should be held as one city fund, to be known as "West Cleveland Fund" (the total of all such funds having a credit cash balance), until such time as incoming taxes, or advances from the City General Funds should make good such overdrafts. Such advances were made during the years 1896 and 1897, and the West Cleveland street improvement funds embraced among the City of Cleveland street improvement funds (see tables No. 126, 127, 128, 129 and 130), thus wiping out the temporary "West Cleveland Fund."

TABLE NO. 116.

NIGHT SOIL FUND.—CLASSIFIED ANALYSIS.

Cash on hand January 1, 1897.....	\$309 28
RECEIPTS.	
Received from fees for removal of night soil.....	\$20,774 75
Less refunders paid.....	155 36
Total fees..	\$20,619 39
Total receipts.....	20,619 39
Total to be accounted for.....	\$20,928 67
DISBURSEMENTS.	
Paid contractor for removal of night soil.....	\$20,618 11
Total disbursements.....	20,618 11
Cash on hand January 1, 1898.....	\$310 56
ASSETS.	
Cash.....	\$310 56
LIABILITIES.	
No liabilities.....	.....
Excess of assets.....	\$310 56

NOTE.—An ordinance passed by the City Council November 9, 1891, provides that "All moneys received by the City of Cleveland to pay for the removal of night soil, and paid into the City Treasury, shall constitute a fund to be called the Night Soil Fund, and the same shall be and are hereby appropriated to and for the purpose of paying for such removal. All payments for the removal of night soil shall be made upon the estimate of the Director of Police, and the warrant of the City Auditor, but no estimate shall be made or warrant drawn until the work has been done, and then for no greater amount than has been paid into the treasury by the person or persons for whom such night soil has been removed; and no estimate shall include any removal, the money for which has not been paid to the city." (Revised Ordinances, Chap. VII., subhead 4, Division 3, page 548.) Under the terms and conditions of the above ordinance, the Night Soil Fund is maintained.

TABLE No. 117.

POLICE CONTINGENT FUND.—CLASSIFIED ANALYSIS.

Cash on hand January 1, 1897.....		\$ 7,380 96
RECEIPTS.		
Received from officers' and marshals' fees (table No. 13)...	\$4,224 49	
Total receipts.....		4,224 49
Total to be accounted for.....		\$11,605 45
DISBURSEMENTS.		
Paid for Secret Service to J. Vanek, Secretary.....	\$3,100 00	
Total supplies.....	\$3,100 00	
Total disbursements.....		3,100 00
Cash on hand January 1, 1898.....		\$8,505 45
ASSETS.		
Cash.....	\$8,505 45	
LIABILITIES.		
No liabilities.....		.....
Excess of assets.....		\$8,505 45

NOTE.—This fund is maintained under authority of § 1941 of the Revised Statutes of the State of Ohio (73 O. L. 50, § 9; 78 O. L. 224) by the amounts received from the Police Court, consisting of two-thirds of all fees for the service by Police Officers of writs, etc., issued by said Police Court. This fund is at the service of the Director of Police, for use in secret service and for "incidental or extraordinary expenses of the Police force."

TABLE NO. 118.

SIDEWALK FUND.—CLASSIFIED ANALYSIS.

Cash on hand January 1, 1897.....	\$ 2,857 75
RECEIPTS.	
Received from special assessments.....	\$ 8,901 59
Less abatements paid.....	6,807 40
Total tax.....	\$ 2,094 19
Total receipts.....	2,094 19
Total to be accounted for.....	\$ 4,951 94
DISBURSEMENTS.	
Paid for laying sidewalks.....	\$ 1,668 83
Total permanent improvements.....	\$ 1,668 83
Paid transfer to General Fund as reimbursement for printing charges (Ordinance No. 14350).....	\$ 3,000 00
Total transfers.....	3,000 00
Total disbursements.....	4,668 83
Cash on hand January 1, 1898.....	283 11
ASSETS.	
Cash..	\$ 283 11
LIABILITIES.	
No liabilities.....	.....
Excess of assets.....	\$ 283 11

NOTE.—This Fund is maintained by special assessments placed upon property by ordinances of the City Council, after due notice has been served upon the owners of such property to lay a sidewalk in front of such property, and the non-compliance of such owner with such notice. The money thus raised is used only in paying the cost and expense of laying such sidewalks, including the cost of necessary advertising and printing of such ordinances and cost of clerical work incident to levy of such assessment.

TABLE No. 119.

RIVER AND HARBOR FUND.—CLASSIFIED ANALYSIS.

Cash on hand January 1, 1897		\$249,868 95
RECEIPTS.		
Received from sale of bonds.....	\$250,000 00	
Total loans.....		\$250,000 00
Total receipts.....		\$250,000 00
Total to be accounted for.....		\$499,868 95
DISBURSEMENTS.		
Paid L. P. & J. A. Smith in full of contract No. 2401 for dock construction.....	\$ 15,000 75	
Paid Cleveland Dredge Co., in full of contract No. 2456 for river widening.....	\$ 12,867 12	
Paid L. P. & J. A. Smith estimates No. 1 to 6 inclusive on contract No. 2356 for Erie street pier extension.....	15,778 76	
Paid Cleveland Terminal & Valley R'y for land for river widening.....	170,500 00	
Paid J. & G. Pitcairn for land for river widening.....	50,046 43	
Paid Cleveland Terminal & Valley R'y for land for river widening.....	20,000 00	
Paid estate of J. M. Woolsey for land for river widening	52,151 48	
Paid Cleveland Terminal & Valley R'y for land for river widening.....	10,972 00	
Paid E. White, Treas. Erie R'y for land for river widening	6,900 00	
Paid Mercantile National Bank for land for river widening	45,000 00	
Paid E. C. Perkins estate for land for river widening	45,252 50	
Paid Geo. J. Doster, Agt., for land for river widening.....	4,321 50	
Paid C. Doster and wife for land for river widening	3,895 17	
Paid P. G. Williams et al. for land for river widening	3,383 33	
Paid V. C. Taylor & Son for options on above land	1,657 19	
Paid for inspection of work of above contractors..	164 50	
Paid for abstracts, lithographing bonds, advertising, recording deeds.....	770 06	
Paid for labor.....	938 89	
Total permanent improvements	\$459,599 68	
Paid transfer to Dredging Fund (reimbursement for cash paid in 1896 for land, see table No. 95).....	5,100 00	
Total disbursements.....		\$464,699 68
Cash on hand January 1, 1898		\$ 35,169 27

TABLE No. 119.—Concluded.

ASSETS.	
Cash.....	\$ 35,169 27
Highways (table No. 41).....	489,830 73
Total assets	\$525,000 00
LIABILITIES.	
No liabilities .....	.....
Excess of assets.....	\$525,000 00

NOTE.—This fund is the proceeds of the issuance of bonds for widening and improving the Cuyahoga river and Cleveland harbor, and the money thus raised can be used only for such purpose.

TABLE No. 120.

INTERCEPTING SEWER FUND.—CLASSIFIED
ANALYSIS.

Cash on hand January 1, 1897.....		\$105,483 45
RECEIPTS.		
Received from sale of bonds	\$200,000 00	
Total loans.....		\$200,000 00
Total receipts.....		200,000 00
Total to be accounted for.....		\$305,483 45
DISBURSEMENTS.		
Paid contractor.....	\$ 34,005 72	
Paid inspection.....	1,701 00	
Paid J. D. and L. Rockefeller, for land	\$ 18,375 00	
Paid H. C. White, Probate Judge, award and costs for land.....	5,503 85	
Paid I. Leisy Brewing Co., for land.....	150 00	
Paid H. J. and G. A. Weitz, for land.....	150 00	
Paid M. Reagan, for land	850 00	
Total land... ..	\$ 25,028 85	
Paid N. Bartlett, removing poles	146 50	
Paid D. R. Taylor, option on land.....	150 00	
Paid Reeder Stone Co., stone.....	65 04	
Paid for lithographing bonds.....	85 00	
Paid for advertising and printing.	64 57	
Paid for abstracts and recording deeds.....	58 26	
Paid for engineering.....	1,587 40	
Paid L. H. Fahey, work performed removing platform	226 50	
Paid L. S. & M. S. R. R., building culvert over sewer	174 02	
Total permanent improvements (sewers)	\$ 63,292 86	
Paid transfer to Walworth sewer.....	100,000 00	
Total disbursements.....		163,292 86
Cash on hand January 1, 1898		\$142,190 59
ASSETS.		
Cash.....	\$142,190 59	
Sewers.....	67,809 41	
Total assets.....		\$210,000 00
LIABILITIES.		
No liabilities		
Excess of assets.....		\$210,000 00

NOTE.—This fund is the proceeds of the issuance of bonds for building an intercepting sewer, and extending the city sewer system, and the money thus raised can be used only for such purpose.

TABLE No. 121.

SEWER DISTRICT FUNDS.—CLASSIFIED ANALYSIS.

(For itemized analysis, see table No. 122, and for local account, see table No. 123.)

Cash on hand January 1, 1897.....		\$200,244 22
RECEIPTS.		
Received from Sewer District tax.....	\$158,514 00	
Received from special assessment.....	2,928 50	
Total tax.....		\$161,442 50
Received from interest.....	\$16,869 17	
Total earnings.....		16,869 17
Received from sale of bonds.....	\$298,000 00	
Total loans.....		298,000 00
Received from transfers.....		\$26,068 92
Total receipts.....		502,380 59
Total to be accounted for.....		\$702,624 81
DISBURSEMENTS.		
Paid fixed charges.....	\$31,395 00	
Paid for supplies.....	22,147 87	
Total operating expenses.....		\$53,542 87
Paid for bonds redeemed.....	\$73,000 00	
Total loans.....		73,000 00
Paid transfers... ..		367,601 27
Total disbursements.....		\$494,144 14
Cash on hand January 1, 1898.....		\$208,480 67
ASSETS.		
Cash.....		\$208,480 67
LIABILITIES.		
Bonds (table No. 48).....		921,000 00
Excess of liabilities.....		\$712,519 33

NOTE.—For explanation in full of manner of maintaining and conducting the Sewer District Funds, see table No. 136.

TABLE No. 122.

SEWER DISTRICT FUNDS.—ITEMIZED ANALYSIS.

(For classified analysis, see table No. 121, and for local account, see table No. 123.)

Cash on hand January 1st, 1897.....	\$200,244 22
Received from special tax levy on Sewer Districts (see table No. 9). ..	\$158,961 79
Less abatements paid.....	447 79
	<hr/> 158,514 00
Received from special assessments.....	2,928 50
Received from premiums and accrued interest on sales of bonds (table No. 19)..	16,869 17
Received from sale of bonds,.....	298,000 00
Received from transfers from various special funds (sewers) as reimbursements on account of surplus advance from sewer districts.....	26,068 92
	<hr/>
Total to be accounted for.....	702,624 81
Paid interest on outstanding bonds.....	\$ 31,395 00
Paid for repairs and supplies in the several Sewer Districts.....	22,147 87
Paid to redeem bonds matured.	73,000 00
Paid transfers to various special funds (sewers) to aid in construction of main sewers.....	367,601 27
	<hr/>
Total disbursements.....	\$494,144 14
	<hr/>
Cash on hand January 1, 1898.....	\$208,480 67

TABLE No. 123.—Continued.
THE SEWER DISTRICT FUNDS.—LOCAL ACCOUNTS OF RECEIPTS AND DISBURSEMENTS.

	District No. 13.	District No. 14.	District No. 15.	District No. 16.	District No. 17.	District No. 18.	District No. 19.	District No. 20.	District No. 21.	District Com'l.	Total.
Cash on hand Jan'y 1, 1897.....	\$ 71,007 03	\$ 10,930 53	\$ 35,925 44	\$ 3,449 96	\$ 9,083 42	\$ 8,570 61	\$ 24,644 40	\$ 41 67	\$ 248 12	\$ 948 05	\$200,244 22
Received from Sewer Dist. Tax	\$ 8,464 29	\$ 43 04	\$ 48,270 70	\$ 8,632 73	\$ 8,072 89	\$ 5,527 37	\$ 941 54	\$.....	\$ 954 31	\$.....	\$158,961 79
Received from interest.....	.....	3,618 60	.....	3,398 53	.....	80 75	.....	.....	371 18	.....	16,869 17
Received from sale of bonds..	.....	43,000 00	.....	63,000 00	.....	9,000 00	.....	.....	7,000 00	.....	298,000 00
Received from transfers.....	.....	900 00	2,172 63	3,780 00	1,286 31	1,473 78	.....	2,361 31	.....	.....	28,068 92
Received from special ass'm't.	2,928 50	.....	.....	.....	.....	.....	.....	.....	.....	.....	2,928 50
Total receipts.....	\$ 11,392 79	\$ 47,561 64	\$ 50,443 33	\$78,811 26	\$ 9,359 20	\$16,081 90	\$ 941 54	\$ 2,361 31	\$ 8,325 49	.....	\$502,828 38
Total to be accounted for	\$ 82,399 82	\$ 57,892 17	\$ 86,368 77	\$82,261 22	\$18,427 62	\$24,652 51	\$ 25,585 94	\$ 2,402 98	\$ 8,573 61	\$ 948 05	\$703,072 60
Paid interest.....	\$ 2,520 00	\$ 1,420 00	\$ 15,655 00	\$ 2,210 00	\$ 1,110 00	\$ 2,170 00	\$ 920 00	\$.....	\$.....	.....	\$ 31,395 00
Paid for supplies and repairs..	1,262 69	3,264 83	2,634 48	385 87	977 12	386 39	149 16	1,167 28	59 91	307 70	22,147 87
Paid to redeem bonds.....	.....	2,000 00	45,000 00	6,000 00	4,000 00	5,000 00	.....	.....	.....	.....	73,000 00
Paid transfers.....	50,917 98	44,830 00	10,233 10	57,405 00	1,580 00	16,975 00	.....	1,100 00	6,400 00	150 00	867,601 27
Paid abatements	45	.....	177 87	32 00	1 62	5 94	.....	.....	39	.....	447 79
Total disbursements.....	\$ 54,701 12	\$ 51,614 83	\$ 73,700 43	\$66,032 87	\$ 7,668 74	\$24,537 33	\$ 1,069 16	\$ 2,267 28	\$ 6,460 30	\$ 457 70	\$494,591 93
Cash on hand Jan'y 1, 1898.....	\$ 27,698 70	\$ 6,277 31	12,668 34	\$16,228 35	\$10,758 88	\$ 115 18	\$ 4,516 78	\$ 135 70	\$ 2,113 31	\$ 490 35	\$208,480 67

TABLE NO. 124.

THE STREET IMPROVEMENT FUNDS.—CLASSIFIED ANALYSIS.

(For itemized analysis, see table No. 125, and for local account, see tables Nos. 126 to 131 inclusive.)

Cash on hand January 1st, 1897.....		\$ 437,148 91
RECEIPTS.		
Received from special assessments.....	\$423,313 36	
Total tax		\$ 423,313 36
Received from sale of notes.....	\$319,960 00	
Total loans.....		319,960 00
Received from transfers.....		585,576 22
Total receipts.....		1,328,849 58
Total to be accounted for... ..		\$1,765,998 49
DISBURSEMENTS.		
Paid fixed charges.....	\$ 43,458 62	
Total operating expenses.....		\$ 43,458 62
Paid for sewers.....	\$396,246 18	
Paid for grading, paving, etc.....	284,810 13	
Total permanent improvements.....		681,056 31
Paid for bonds redeemed.....	\$162,259 00	
Paid for notes redeemed.....	287,361 00	
Total loans		449,620 00
Total disbursements.....		1,174,134 93
Cash on hand January 1st, 1898.....		\$ 591,863 56
ASSETS.		
Cash.. ..		\$ 591,863 56
Highways (table No. 41).....		7,810,539 86
Sewers (tables No. 42).....		4,903,923 48
Total assets.....		13,151,612 25
LIABILITIES.		
Bonds (table No. 46)	\$ 99,850 00	
Notes (table No. 50).....	661,992 00	
Total liabilities.....		761,842 00
Excess of assets.....		\$12,389 770 25

NOTE—The Street Improvement Funds are raised by special assessments placed upon property by Ordinances of the City Council, (see table No. 10), and the money thus raised can be used only for the purpose of paying the cost and expense of making such improvements as such ordinances call for. Whatever balance may remain in any such fund after paying for such improvement is refunded to the property owners who paid such assessment, in proportion to the amount of such assessment they have paid.

TABLE No. 125.

THE STREET IMPROVEMENT FUNDS.—ITEMIZED ANALYSIS.

(For classified analysis, see table No. 124, and for local account, see tables Nos. 126 to 131 inclusive.)

Cash on hand January 1st, 1897.....	\$437,148 91
Received from special assessments on pavings.....	\$431,331 96
Received from special assessments on sewers.....	133,152 39
Received from special assessments on gradings and curbing.....	27,678 76
Received from special assessments on openings and widenings.....	3,936 97
Total taxes.....	<u>\$596,100 08</u>
Less abatements paid.....	<u>172,786 72</u>
Net taxes.....	423,313 36
Received from sale of notes (table No. 20.).....	319,960 00
Received from transfers from various funds.....	\$763,893 54
Less transfers paid to various funds.....	<u>183,317 32</u>
Net transfers.....	<u>585,576 22</u>
Total to be accounted for.....	<u>\$1,765,998 49</u>
Paid interest on bonds and notes outstanding.....	\$43,458 62
Paid sewer contractors.....	\$365,917 97
Paid sewer inspectors.....	14,897 61
Paid sewer miscellaneous bills.....	<u>15,430 57</u>
Total sewers.....	396,246 18
Paid paving contractors.....	243,176 15
Paid paving inspectors.....	7,796 25
Paid paving miscellaneous bills.....	<u>8,569 42</u>
Total pavings.....	259,541 82
Paid grading, curbing & opening contractors.....	\$16,005 29
Paid grading, curbing & opening inspectors..	940 36
Paid grading, curbing & opening misc. bills..	<u>8,322 66</u>
Total	<u>25,268 31</u>
Total permanent improvements.....	681,056 31
Paid for bonds redeemed.....	\$162,259 00
Paid for notes redeemed.....	<u>287,361 00</u>
Total loans.....	<u>449,620 00</u>
Total disbursements.....	<u>1,174,134 93</u>
Cash on hand January 1st, 1898.....	<u>\$591,863 56</u>

TABLE

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.

C. R.	Street Improvement Fund.	Balance Jan. 1, 1897.	Taxes.	Transfers.	Loans.	Total Receipts.
1748	Adelbert	\$ 1,651 91	\$ 2,100 57	\$.....	\$.....	\$ 3,752 48
2514	Alanson .....	.....	859 44	75 00	3,600 00	4,534 44
2602	Alpha Alley .....	.....	307 40	200 00	550 60	1,057 40
2598	Ashley Alley .....	.....	664 66	150 00	900 00	1,714 66
754	Auburn	2 21	.....	113 53	.....	115 74
2582	Austin Alley .....	.....	332 02	50 00	750 00	1,132 02
2050	Bailey Alley	141 28	110 82	.....	.....	252 10
2596	Barn Alley .....	.....	602 74	.....	1,200 00	1,802 74
1432	Beech	1,466 00	1,067 64	91 05	.....	2,624 69
1462	Beech	1,093 69	956 68	58 72	.....	2,109 09
1750	Bell	996 54	960 73	.....	.....	1,957 27
1180	Bolivar	1,656 79	1,654 28	.....	.....	3,311 07
718	Bond	660 61	1,022 89	.....	.....	1,683 50
2484	Bridge	8,787 22	5,212 28	.....	.....	13,999 50
1634	Bright	229 33	663 61	.....	.....	892 94
1424	Broadway	696 86	18,286 26	11,200 00	.....	30,183 12
2186	Broadway	741 73	782 33	.....	.....	1,524 06
1964	Brownell	4 41	2,168 18	300 00	.....	2,472 59
2562	Brownell .....	.....	1,067 05	560 00	3,600 00	5,227 05
852	Burton	8,429 15	8,536 26	1,207 53	.....	18,172 94
1752	Canal	241 19	780 19	.....	.....	1,021 38
	<i>Forward</i> .....	.....	.....	.....	.....	.....

TABLE No.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.

G. R.	Street Improvement Fund.	Balance Jan. 1, 1897.	Taxes.	Transfers.	Loans.	Total Receipts
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
2228	Cedar.....	1,267 78	1,174 69	.....	.....	2,442 47
1636	Center.....	446 17	1,888 58	.....	.....	2,334 75
2552	Center.....	.....	2,369 02	7,700 00	7,200 00	17,269 02
1170	Central.....	334 42	5,547 14	3,073 68	.....	8,955 24
1570	Central.....	1,212 48	3,293 43	.....	.....	4,505 91
2556	Central.....	.....	3,457 29	1,600 00	9,900 00	14,957 29
1470	Champlain.....	1,483 01	2,227 83	369 38	.....	4,080 22
2572	Cherry.....	.....	287 80	175 00	1,080 00	1,542 80
2578	Cherry Alley.....	.....	432 80	300 00	1,620 00	2,352 80
1968	Cherry.....	7 05	422 07	.....	.....	429 12
1578	Chestnut.....	2,803 84	1,921 88	.....	.....	4,725 72
2232	Claremont.....	322 90	638 34	.....	.....	961 24
2620	Clark.....	.....	4,397 04	.....	9,000 00	13,397 04
722	Clark.....	5,434 24	.....	.....	.....	5,434 24
1430	Clinton.....	2,397 00	2,850 36	818 92	.....	6,066 28
1590	Columbus.....	1,235 86	2,908 23	.....	.....	4,144 09
2038	Cornell.....	313 78	961 17	.....	.....	1,274 95
1776	Crawford.....	602 41	1,140 29	.....	.....	1,742 70
2068	Crawford.....	787 72	2,273 95	.....	.....	3,061 67
2052	Crooked Alley.....	124 81	405 39	6 34	.....	536 54
1512	Cross.....	515 48	1,005 33	562 83	.....	2,083 64
	<i>Forward</i>.....	.....	.....	.....	.....	.....

TABLE No.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.

G. R.	Street Improvement Fund.	Balance Jan. 1, 1897.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
1754	Croton.....	2,018 32	5,306 08	.....	.....	7,324 40
886	Decatur.....	190 25	.....	28 01	.....	218 26
1428	Decatur	40 62	650 01	.....	.....	690 63
2134	Dennison ,.....	766 36	2,341 11	.....	.....	3,107 47
1932	Detroit.....	.....	1,669 65	1,490 56	.....	3,160 21
1933	Detroit.....	.....	1,007 62	2 14	.....	1,009 76
1970	Dexter Place.....	277 45	290 33	.....	.....	567 78
1456	Dunham.....	2,024 86	1,161 18	24 39	.....	3,210 43
2550	Eastman	547 82	1,577 01	150 00	.....	2,274 83
1576	East Madison.	520 26	763 38	136 95	.....	1,420 59
1734	East Madison.....	7,494 55	3,806 94	500 00	.....	11,801 49
2032	East Madison.....	616 05	5,398 70	.....	.....	6,014 75
1436	East Prospect.....	332 50	20,176 68	16,222 94	.....	36,732 12
1493	East River.....	2,724 50	2,882 57	1,463 83	.....	7,070 90
1642	Elm.....	4,941 24	3,459 27	.....	.....	8,400 51
1666	Emmet	427 60	1,293 74	.....	.....	1,721 34
2614	Erie Court.....	.....	654 35	350 00	2,400 00	3,404 35
1778	Euclid Alley.....	1,050 70	1,561 34	.....	.....	2,612 04
479	Euclid.....	1,177 79	.....	.....	.....	1,177 79
2040	Euclid	1,473 28	9,052 33	.....	.....	10,525 61
1670	Fall.....	1,106 56	2,078 07	.....	.....	3,184 63
	<i>Forward</i>.....	.....	.....	.....	.....	.....

126.—Continued.

OF RECEIPTS AND DISBURSEMENTS.—PAVINGS.

DISBURSEMENTS.

Contract.	Inspection.	Miscellaneous.	Abate-ments.	Transfers.	Interest.	Loans.	Total Disbursem'ts	Balance Dec. 31, 1897.
\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
		78 54			425 25	4,860 00	5,363 79	1,960 61
				218 26			218 26	
				68 13	22 50	600 00	690 63	
			243 75		576 00	1,200 00	2,019 75	1,087 72
					45 00	3,000 00	3,045 00	115 21
								1,009 76
		7 71			38 50	280 00	326 21	241 57
				1,965 43	45 00	1,200 00	3,210 43	
710 26		1 46			322 50	1,200 00	2,234 22	40 61
			776 46	644 13			1,420 59	
232 65	68 25	6 35		136 95	866 50	3,400 00	11,760 70	40 79
		90 60			638 00	4,640 00	5,868 60	646 15
		75 00	152 31	14,704 81	800 00	21,000 00	36,732 12	
				2,920 90	150 00	4,000 00	7,070 90	
		56 76			235 75	3,380 00	3,732 51	4,668 00
		2 86			35 00	400 00	437 86	1,283 48
674 92	197 75	2 02	2 60				3,277 29	127 06
					62 25	1,660 00	1,722 25	889 79
								1,177 79
		138 27	97 15		957 00	6,960 00	8,152 42	2,373 19
		26 43			171 50	1,960 00	2,157 93	1,026 70

TABLE No.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.

C. R.	Street Improvement Fund.	Balance Jan. 1, 1897.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
2180	Farnham Alley.....	284 61	.....	.....	.....	284 61
1680	Fillmore.....	939 59	307 31	.....	.....	1,246 90
2457	Fish.....	.....	1,469 03	2,309 67	.....	3,778 70
802	Forest.....	146 30	107 53	.....	.....	253 83
1284	Forest.....	783 07	1,377 34	1,403 88	.....	3,564 29
2188	Frankfort.....	3,260 25	1,071 33	.....	.....	4,331 58
2270	Franklin Place.....	330 30	126 22	1,300 00	.....	1,756 52
2740	Franklin Place.....	.....	350 00	800 00	.....	1,150 00
1434	Genesee.....	489 33	1,488 48	1,300 00	.....	3,277 81
1564	Giddings.....	1,593 59	890 48	.....	.....	2,484 07
2224	Giddings.....	1,473 99	3,742 89	.....	.....	5,216 88
2260	Giddings.....	3,335 00	5,099 41	.....	.....	8,434 41
1532	Greenwood.....	634 06	652 37	.....	.....	1,286 43
2108	Greenwood.....	.....	718 80	600 32	.....	1,319 12
2594	Gundry Alley.....	.....	554 00	.....	1,200 00	1,754 00
1240	Hamilton.....	614 50	813 43	12 49	.....	1,440 42
2516	Hamilton.....	.....	3,140 25	.....	.....	3,140 25
2272	Hanover.....	4 01	1,202 10	30 00	.....	1,236 11
1420	Harkness.....	2,823 80	2,525 43	532 75	.....	5,881 98
2592	Harmon.....	1,749 21	450 00	6,300 00	8,499 21
1652	Harrison.....	46 43	46 43
	<i>Forward</i>

DEPARTMENT OF ACCOUNTS.

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126.—Continued.

OF RECEIPTS AND DISBURSEMENTS.—PAVINGS.

DISBURSEMENTS.

[illegible]

TABLE No.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.						
G. R.	Street Improvement Fund.	Balance Jan. 1, 1897.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
2198	Hazard	406 99	630 19	.....	.....	1,037 18
2534	Hickox.....	125 73	578 90	.....	.....	704 63
1418	Hill.....	98 19	1,227 30	39 77	.....	1,365 26
1594	Hilburn.....	207 50	1,596 59	.....	.....	1,804 09
2054	Hodge Alley.....	69 57	66 45	.....	.....	136 02
1878	Hough	57 30	5,892 26	.....	.....	5,949 56
2056	Hough.....	1,171 75	1,331 79	.....	.....	2,503 54
2064	Hough.....	2,245 66	2,638 54	.....	.....	4,884 20
1444	Humboldt	1,180 75	1,506 76	62 98	.....	2,750 49
1528	Huntington.....	886 81	.....	.....	.....	886 81
1534	Huntington.....	2,059 47	1,966 68	94 51	.....	4,120 66
710	Huron	204 91	.....	92	.....	205 83
2178	Iris Alley.....	125 16	.....	13 67	.....	138 83
1972	James	1,136 23	657 18	.....	.....	1,793 41
2584	Kent Alley.....	.....	835 75	175 00	750 00	1,260 75
1074	Kinsman.....	3,891 99	7,183 35	21,943 43	.....	33,018 77
2520	Knox	491 76	644 93	.....	.....	1,136 69
2522	Lake.....	.....	3,181 65	179 69	.....	3,361 34
2606	La Grange.....	.....	754 31	75 00	2,970 00	3,799 31
2314	Lamont	1,252 46	1,469 87	.....	.....	2,722 33
2558	Lexington	174 05	10,407 15	3,500 00	16,000 00	30,081 20
	<i>Forward</i>.....	.....	.....	.....	.....	.....

TABLE No.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.

G. R.	Street Improvement Fund.	Balance Jan. 1, 1897.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
1414	Liberty	131 49	653 52	357 38	.....	1,142 39
1592	Lincoln.....	3,739 00	2,270 30	1,042 78	.....	7,052 08
2316	Lindus	43 30	1,450 35	.....	.....	1,493 65
1416	Livingston	1,157 35	1,029 02	69 84	.....	2,256 21
1246	Logan	723 76	1,352 24	373 09	.....	2,449 09
1198	Logan	662 36	1,300 86	696 08	.....	2,659 30
714	Lorain	170 78	.....	.....	.....	170 78
2618	Luverne.....	.....	1,508 36	280 00	4,200 00	5,988 36
2034	Main	112 15	2,152 87	.....	.....	2,265 02
2492	Marcy.....	1,097 81	2,572 25	.....	.....	3,670 06
1504	Marvin.....	35 78	2,989 63	5,013 82	.....	8,039 23
1440	Mayfield.....	980 63	763 65	80 52	.....	1,824 80
2558	Mayfield.....	.....	3,641 69	4,000 00	12,600 00	20,241 69
1656	Merwin.....	885 03	2,434 04	.....	.....	3,319 07
2016	Merwin.....	472 25	3,363 59	.....	.....	3,835 84
1412	Miami.....	813 70	414 68	97 26	.....	1,325 64
1460	Michigan	1,030 50	2,264 89	857 77	.....	4,153 16
966	Monumental Court.....	17 55	.....	82 45	.....	100 00
2512	Monumental Court.....	.....	867 98	2,075 00	1,980 00	4,922 98
2526	Murray Hill.....	27,048 53	4,450 98	.....	.....	31,499 51
2459	Newburgh.....	.....	.....	1,207 81	.....	1,207 81
	<i>Forward</i>.....	.....	.....	.....	.....	.....

TABLE No.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.						
C. R.	Street Improvement Fund.	Balance Jan. 1, 1897.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
1410	North Perry.....	706 95	845 64	133 84	.....	1,686 43
1184	Oakdale	909 48	1,031 39	592 82	.....	2,533 69
1568	Oakdale	1,553 88	1,643 54	500 12	.....	3,697 54
1472	Oak Place.....	834 06	394 27	.....	.....	1,228 33
2576	Odell .....	.....	90 76	185 00	720 00	995 76
2174	Olive	594 31	925 33	.....	.....	1,519 69
2518	Ontario.....	.....	410 97	.....	.....	410 97
1438	Orange	1,362 44	4,423 78	5,086 06	.....	10,872 28
1468	Orange.....	2,509 64	2,933 55	1,050 27	.....	6,493 46
2490	Orange.....	6 86	138 53	33 63	.....	179 02
1562	Osborn.....	976 68	952 55	.....	.....	1,929 23
2634	Osborn.....	.....	400 00	300 00	5,900 00	6,600 00
1976	Park Place.....	9 03	905 82	100 00	.....	1,014 85
1290	Payne	17,326 33	13,584 89	679 19	.....	31,590 41
1758	Pearl	1,264 08	7,472 23	.....	.....	8,736 31
2070	Pearl	853 43	376 26	.....	.....	1,229 69
1408	Perry.....	453 18	952 86	161 88	.....	1,567 92
2482	Platt.....	1,700 02	2,209 14	.....	.....	3,909 16
2274	Princeton.....	3,303 54	3,714 12	.....	.....	7,017 66
1404	Prospect	8,921 67	4,823 29	.....	.....	13,744 96
1658	Quincy.....	222 80	4,823 05	1,700 00	.....	6,745 85
	<i>Forward</i>.....	.....	.....	.....	.....	.....

TABLE No.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.						
C. R.	Street Improvement Fund.	Balance Jan. 1, 1897.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
1660	Quincy.....	734 33	6,639 78	.....	.....	7,374 11
1978	Randall.....	286 52	355 15	.....	.....	641 67
1466	Rockwell.....	19 76	1,970 06	.....	.....	1,969 82
1530	Rockwell.....	15 28	.....	575 00	.....	590 28
2276	Scovill.....	622 10	1,532 54	1,203 69	.....	3,358 33
2626	Scranton.....	.....	6,090 50	.....	.....	6,090 50
2688	Scranton.....	.....	1,500 00	.....	.....	1,500 00
1980	Second.....	961 84	1,410 68	.....	.....	2,372 52
2548	Seelye.....	.....	1,789 47	400 00	7,200 00	9,389 47
910	Seneca.....	407 04	.....	90 17	.....	497 21
1406	Seneca.....	1,436 15	1,768 62	28 91	.....	3,233 68
1508	Seneca.....	1,142 52	2,744 04	306 07	.....	4,192 63
2182	Seneca.....	39 80	3,819 15	.....	.....	3,858 95
1982	Sheriff.....	1,922 92	415 20	.....	.....	2,338 12
1796	Short Alley.....	323 03	.....	5 22	.....	328 25
1984	Sibley.....	346 27	3,464 84	.....	.....	3,811 11
1764	Sixth.....	796 63	1,289 77	.....	.....	2,086 40
1574	South Water.....	1,060 41	1,283 58	.....	.....	2,343 99
1454	South Woodland.....	2,994 13	4,711 85	.....	.....	7,705 98
1248	Spangler.....	963 98	917 53	21 44	1,902 95
646	Spangler.....	329 00	2,500 00	2,829 00
	<i>Forward</i>

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OF RECEIPTS AND DISBURSEMENTS.—PAVINGS.

[illegible]

TABLE No.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.						
G. R.	Street Improvement Fund.	Balance Jan. 1, 1897.	Taxes.	Transfers,	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
2530	State		1,231 59	850 00	4,050 00	6,131 59
1766	St. Clair.....	2,618 72	7,582 75	.....	.....	10,201 47
2042	St. Clair.....	403 48	5,651 09	.....	.....	6,054 57
1164	Sterling.....	5 57	522 83	74 90	.....	603 30
1172	Sterling	668 23	1,592 32	6 67	.....	2,267 22
2046	Sterling.....	1,550 64	6,501 77	.....	.....	8,052 41
2566	Sumner.....	.....	559 84	300 00	3,600 00	4,459 84
1402	Superior.....	2,833 57	3,953 86	98 15	.....	6,885 58
1884	Superior.....	2,502 71	16,153 90	.....	.....	18,656 61
2176	Superior.....	70 63	149 06	.....	.....	219 69
2044	Tilden	425 93	1,754 64	200 00	.....	2,380 57
2608	Van Buren .....	.....	1,199 61	100 00	4,500 00	5,799 61
2568	Vine.....	.....	1,354 16	210 00	3,600 00	5,164 16
2421	Waller	456 75	.....	106 43	.....	563 18
1566	Walnut.....	1,503 92	24 28	60 67	.....	1,588 87
2612	Ward.....	.....	1,327 61	1,250 00	4,500 00	7,077 61
2628	Waring.....	.....	495 00	300 00	4,300 00	5,095 00
1768	Wason	1,292 03	2,485 87	.....	.....	3,777 90
2058	Water	35 49	1,892 53	100 00	.....	2,028 02
2190	Water	1,659 31	2,488 90	.....	.....	4,148 21
2616	Waverly.....	.....	3,469 39	2,425 00	13,500 00	19,394 39
	<i>Forward</i>.....	.....	.....	.....	.....	.....

OF RECEIPTS AND DISBURSEMENTS.—PAVINGS.

DISBURSEMENTS.

[illegible]

TABLE No.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.						
C. R.	Street Improvement Fund.	Balance Jan. 1, 1897.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
2570	Webster.....		1,490 62	2,100 00	5,400 00	8,990 63
1192	Wheller.....	577 34	366 27			943 61
2702	Willson.....		4,837 89	7,800 00	36,000 00	48,637 89
2262	Windsor.....	582 61	2,439 09			3,021 70
1458	Wood.....	404 04	943 80			1,347 84
1282	Woodland.....	1,109 14	1,454 00			2,563 14
2554	Woodland.....		1,211 57			1,211 57
2610	Woodland Court.....		909 36		3,200 00	4,109 36
1770	Woodland Hills.....	1,943 58	1,499 84			3,443 42
2298	Woodland Hills.....	9 70	95 63			105 33
2622	York.....		2,803 93	5,400 00	9,000 00	17,203 93
	Totals .	\$223,720 14	\$431,331 96	\$134,593 81	\$195,770 00	\$985,395 91

126.—Concluded.

OF RECEIPTS AND DISBURSEMENTS.—PAVINGS.

DISBURSEMENTS.								
Contract.	Inspection.	Miscellaneous.	Abate-ments.	Transfers.	Interest.	Loans.	Total Disbursem'ts	Balance Dec. 31, 1897.
\$	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
6,949 19	126 00	2 65	.....	.....	148 95	600 00	7,826 79	1,163 83
.....	.....	.....	.....	.....	11 25	300 00	311 25	632 36
26,684 28	833 00	.....	25 40	.....	.....	.....	27,542 68	21,095 21
.....	.....	87	45 59	.....	288 75	2,100 00	2,435 14	586 56
.....	.....	362 22	.....	.....	35 61	950 00	1,347 84	.....
.....	.....	.....	.....	.....	48 75	1,300 00	1,348 75	1,214 39
.....	.....	1 02	.....	.....	.....	.....	1 02	1,210 55
2,753 10	140 00	1 74	.....	.....	.....	.....	2,894 84	1,214 52
.....	.....	35 40	.....	.....	246 75	2,820 00	3,102 15	341 27
.....	.....	.....	.....	.....	.....	.....	.....	105 33
11,388 84	446 25	90	.....	.....	238 50	1,000 00	13,074 49	4,129 44
\$243,176 15	\$ 7,796 25	\$ 8,569 42	\$ 9,582 96	\$126,186 28	\$34,696 47	\$ 363,116 00	\$ 793,123 53	\$ 192,272 38

TABLE

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.						
C. R.	Street Improvement Fund.	Balance Jan. 1, 1897.	Taxes.	Transfers.	Loans.	Total Receipts.
2266	Abram	\$ 203 11	\$ 377 06	\$ 18 67	\$.....	\$ 598 84
2027	Addison	17 37	469 81	30 23	.....	517 41
2427	Agnes	3 00	.....	.....	.....	3 00
2334	Ames	87 89	204 08	.....	.....	291 97
2185	Amesbury	316 48	1,360 97	.....	.....	1,677 45
2337	Amos.....	225 98	414 90	.....	.....	640 88
2407	Anthony .....	.....	443 87	650 00	1,400 00	2,493 87
2418	Anton	344 75	.....	.....	.....	344 75
2308	Armitage .....	.....	1,248 22	.....	3,250 00	4,498 22
2117	Arthur.....	.....	.....	12 78	.....	12 78
1612	Baker.	4 96	.....	.....	.....	4 96
2372	Baker.....	.....	554 52	700 00	1,450 00	2,704 52
1821	Bailey	91 99	316 07	2 23	.....	410 29
2400	Barnum Court.....	26 30	.....	.....	.....	26 30
2499	Becker Place.	142 74	304 50	.....	.....	447 24
1880	Beechwood	67 22	8 64	.....	.....	75 86
2437	Bellevue .....	.....	1,042 35	400 00	2,700 00	4,142 35
2406	Berry.....	.....	534 44	1,030 00	1,300 00	2,864 44
2872	Bertram.....	.....	50 00	.....	.....	50 00
2419	Bigelow	319 11	674 77	305 00	.....	1,298 88
2840	Bliss.....	.....	1,063 15	1,640 00	2,800 00	5,503 15
2313	Bradwell.....	256 42	133 23	404 04	.....	793 69
	Forward.....	.....	.....	.....	.....	.....

OF RECEIPTS AND DISBURSEMENTS.—SEWERS.

[illegible]

TABLE No.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.						
Ci.	Street Improvement Fund.	Balance Jan. 1, 1897.	Taxes.	Transfers.	Loans.	Total Receipts.
	Forward.....	\$.....	\$.....	\$.....	\$.....	\$.....
2060	Brevier.....	56 05	353 36	.....	.....	409 41
2339	Bridge.....	711 83	711 83	.....	.....	1,423 66
2426	Bridge.....	01	896 94	850 00	.....	1,746 95
2023	Brooklyn.....	134 46	323 13	.....	.....	457 59
2022	Brooklyn.....	2,335 40	75 48	.....	.....	2,410 88
2265	Buckley.....	60 95	451 32	30 00	.....	542 27
2267	Burton.....	5,748 66	2,883 40	.....	.....	8,632 06
2212	Carl.....	330 31	498 60	15 79	.....	844 70
2854	Carribelli.....	.....	.....	.....	1,500 00	1,500 00
2841	Carry.....	.....	346 35	.....	400 00	746 35
2845	Case.....	.....	601 32	30,040 00	.....	30,641 32
2192	Center.....	18 37	584 60	153 78	.....	756 75
2910	Chandler.....	.....	640 00	.....	3,600 00	4,240 00
2410	Cherry Lane.....	.....	683 50	343 65	.....	1,027 15
1551	Chestnut.....	39 22	.....	.....	.....	39 22
2874	Churchill.....	.....	3,850 00	.....	.....	3,850 00
1615	Clara.....	55 41	.....	.....	.....	55 41
2306	Clark.....	1,127 28	2,133 24	1,600 00	.....	4,860 52
2384	Claud.....	316 16	450 00	766 16
2313	Columbus.....	7,961 63	46 19	8,007 82
1540	Congress.....	40 01	40 01
	Forward.....

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OF RECEIPTS AND DISBURSEMENTS.—SEWERS.

[illegible]

TABLE NO.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.						
G. R.	Street Improvement Fund.	Balance Jan. 1, 1897.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
2815	Conrad		1,016 40			1,016 40
2336	Corwin	168 55	931 56			1,100 11
2824	Cumberland		654 70	2,100 00	1,750 00	4,504 70
2810	Czar		712 73	900 00	1,750 00	3,362 73
1874	Dana.....	4 85		43 63		48 48
2201	Dartmouth.....	1,036 91		81 09		1,118 00
2134	Dean Place.....		615 06	20 00	1,200 00	1,835 06
2202	Detroit	6,807 61		481 79		7,289 40
2203	Detroit	7,006 60		1,397 49		8,404 09
2828	Detroit		652 77	3,400 00	1,400 00	5,452 77
2829	Detroit		937 30	2,000 00	2,000 00	4,937 30
2830	Detroit		1,847 05	2,500 00	3,600 00	7,947 05
2193	Duane.....	33 43	116 87			150 30
2852	Duane....				1,500 00	1,500 00
2121	Eagle.....		28 94	192 04		220 98
2204	East	1,418 35		55 39		1,473 74
2376	East Court.....		183 30	100 00	500 00	783 30
1515	East Prospect.....	40 01				40 01
1730	East Prospect.....	411 05		77 79		488 84
2268	Eastdale.....	286 25	532 57			818 82
2425	East View.....	423 50				423 50
	<i>Forward</i>					

127.—Continued.

OF RECEIPTS AND DISBURSEMENTS.—SEWERS.

DISBURSEMENTS.								
Contract.	Inspection.	Miscellaneous.	Abate-ments.	Transfers.	Interest.	Loans.	Total Disbursements	Balance Dec. 31, 1897.
\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
		50					50	1,015 90
		50	18 24		61 25	700 00	779 99	310 12
3,775 10	171 50	1 05	66 48		56 25	350 00	4,420 38	84 32
2,532 72	77 00	1 70			56 25	350 00	3,017 67	345 06
		48 48					48 48	
			1,081 74		36 26		1,118 00	
1,500 15	147 00	25	33 00	20 00			1,700 40	134 66
		30 00	6,731 53				6,761 53	527 87
		30 00	8,069 82	304 27			8,404 09	
3,566 36	171 50	3 75					3,741 61	1,711 16
		50					50	4,936 80
7,087 02	616 00	1 50					7,704 52	242 53
		35 30		115 00			150 30	
1,112 87	56 00						1,168 87	331 13
		30 18			5 40	90 00	125 58	95 40
		30 00	1,427 34	16 40			1,473 74	
630 29	26 25	65			12 00	100 00	769 19	14 11
		40 01					40 01	
		40 00		448 84			488 84	
113 43		25			42 00	480 00	635 68	183 14
	55 38						55 38	368 12

TABLE No.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.						
G. R.	Street Improvement Fund.	Balance Jan. 1, 1897.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
2864	Elliott.....			10,000 00	3,300 00	13,300 00
1806	Emmet	261 33				261 33
1828	Emmet	31 06				31 06
1808	Empress	309 66		4 24		313 90
2811	Erie Court.....		541 97	3,980 00	1,600 00	6,121 97
1882	Euclid.....	187 50	843 60	63 15		1,094 25
1826	Filmore.....	7 57		32 43		40 00
2123	Fish			60 75		60 75
2925	Forest			13,000 00		13,000 00
1548	Forman	57 80				57 80
1986	Franklin ,.....			7 98		7 98
2498	Frazee.....	176 57	318 59			495 16
2205	Fruitland.....	3,293 98		139 96		3,433 94
2138	Garden			7 55		7 55
2206	Geneva	66 29	408 66			474 95
2269	Giddings.....	1,271 23	1,300 01			2,571 24
2435	Gilbert		2,817 78	2,700 00	8,700 00	14,217 78
2877	Gloyd		250 00			250 00
2194	Gordon	572 12		86 78		658 90
2805	Gordon,.....		3,170 04	17,000 00	6,800 00	26,970 04
2346	Grand	285 88	490 29			776 17
	<i>Forward</i>					

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OF RECEIPTS AND DISBURSEMENTS.—SEWERS.

[illegible]

TABLE No.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.

C. R.	Street Improvement Fund.	Balance Jan. 1, 1897.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
2106	Grand Army Court.....		41 52	123 28		164 80
2142	Grant.....			2 32		2 32
2833	Guy.....		324 17	300 00	1,530 00	2,154 17
2408	Halsey.....	3 00				3 00
2855	Halsey.....		225 00	300 00		525 00
2870	Halsey.....		400 00			400 00
2214	Hancock.....	710 04		62 36		772 40
2278	Hamilton.....	17 01	922 85	75 00		1,014 86
2279	Hamilton.....	37 20				37 20
2307	Harkness.....	152 00	516 61			668 61
2061	Harvard.....	87 55	1,252 81	151 42		1,491 78
2420	Harvard.....		1,629 02	16,650 00	5,400 00	23,679 02
2280	Herald.....	99	205 91	30 00		236 90
2813	Herald.....		893 93		2,350 00	3,243 93
2818	Higgins.....		1,304 80			1,304 80
2836	Hinde.....		324 64	380 00	850 00	1,554 64
2814	Hope.....		1,198 66			1,198 66
2832	Horace.....		276 11		200 00	476 11
1050	Hoyt.....	245 10		98 79		343 89
2216	Hough.....	683 78	1,519 51			2,202 89
2508	Jay.....	1,044 57	1,008 09	1,080 00	1,560 00	4,692 66
	<i>Forward</i>					

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OF RECEIPTS AND DISBURSEMENTS.—SEWERS.

[illegible]

TABLE NO.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.

G. R.	Street Improvement Fund.	Balance Jan. 1, 1897.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
2347	Jerome Alley.....	23 93	160 85	55 00		239 78
2502	Julia.....	258 23	567 31			825 54
2436	Kenmore.....		889 19	340 00	2,300 00	3,529 19
2423	Kidder.....	47 56	133 64			181 20
2429	Kinder.....	12 40				12 40
2817	Kinkel.....		506 08		1,250 00	1,756 08
957	Kinsman.....	1,697 71				1,697 71
2496	Knox.....	4 72				4 72
1623	Lake.....	490 97				490 97
2317	Lake.....	18,306 39		2,128 66		20,435 05
2827	Lake.....		2,266 72	25,020 00	4,400 00	31,686 72
2804	Lane.....		332 64	150 00	800 00	1,282 64
2137	Liberty.....			154 04		154 04
2880	Library.....		2,534 00			2,534 00
2846	Literary.....		241 15		500 00	741 15
1810	Lockyear.....	9 21				9 21
2801	Lussenden.....		759 32	100 00	2,100 00	2,959 32
2412	Lussenden.....		221 74	100 00	330 00	651 74
2308	Luverne.....	725 41	417 42			1,142 83
2196	Main.....	32 72	477 30			510 02
2806	Malden.....		2,872 78	5,700 00		8,572 78
	<i>Forward</i>					

127.—Continued.

OF RECEIPTS AND DISBURSEMENTS.—SEWERS.

DISBURSEMENTS.

Contract.	Inspection.	Miscellaneous.	Abate-ments.	Transfers.	Interest.	Loans.	Total Disbursem'ts	Balance Dec. 31, 1897.
\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
56 10		1 30			14 00	160 00	231 40	8 88
		86 70			49 00	560 00	686 70	129 84
2,865 78	99 75	1 70			73 90	460 00	3,501 13	28 06
		25					25	180 95
		12 40					12 40	
1,069 50	36 75				37 90	250 00	1,394 15	361 93
								1,697 71
								4 72
		30 00		460 97			490 97	
	31 50	30 00	19,464 43				19,525 93	909 12
27,540 96	1,165 50	143 00	38 43				28,887 89	2,798 83
938 04	157 50	65			25 75	160 00	1,281 94	70
				154 04			154 04	
1,968 67	61 50						1,935 17	598 83
425 41	14 00	25			14 50	100 00	554 16	186 99
		9 21					9 21	
2,292 94	115 50	50			67 50	420 00	2,896 44	62 88
403 58		65	85 52		9 63	110 00	609 38	42 36
75 36		25			42 76	540 00	658 37	484 46
		30 50		479 52			510 02	
6,128 48	136 50	1 25			270 43	1,900 00	8,436 66	136 12

TABLE No.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.

G. R.	Street Improvement Fund.	Balance Jan. 1, 1897.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
2062	Marcelline.....	2 86	2,418 32	325 00		2,746 18
2338	Martin.....	169 05	959 42			1,128 47
2146	Maple.....			13 51		13 51
2458	Marvin.....		291 77	225 92		517 69
2417	Mason Lane.....	25 16	183 77	40 00		248 93
2281	Mather.....	446 83	1,734 24			2,181 07
1887	Maud.....	475 91	802 20	9 88		1,287 99
2218	Mayfield.....	50	1,021 42	1,113 23		2,135 15
1852	Mayflower.....	102 49				102 49
1799	Meade.....	20 88		22 83		43 71
2803	Medina.....		1,170 51	700 00	3,000 00	4,870 51
2811	Melrose.....	6 14		17 50		23 64
2149	Melbourne.....			57		57
1801	Meyer.....	15 43				15 43
1486	Miami.....	32 40		346 97		379 37
2020	Miles.....	197 42	2,798 55	63 23		3,059 10
2151	Mill.....			32 06		32 06
2282	Montrose.....	2 38	216 92	50 00		269 30
2844	Monumental Court.....		140 79	3,000 00		3,140 79
2430	Morton.....	173 75		80 00		253 75
2152	Mt. Vernon.....			7 08		7 08
	<i>Forward</i>					

127.—Continued.

OF RECEIPTS AND DISBURSEMENTS.—SEWERS.

DISBURSEMENTS.

Contract.	Inspection.	Miscellaneous.	Abate-ments.	Transfers.	Interest.	Loans.	Total Disbursements	Balance Dec. 31, 1897.
\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
		1 00			330 00	2,400 00	2,731 00	15 18
		75	7 93		63 00	720 00	791 73	386 74
								13 51
					15 00	500 00	515 00	2 09
		80 65			16 50	120 00	217 15	31 78
		2 35			113 75	1,300 00	1,416 10	764 97
		30 50		1,257 49			1,287 99	
		28 84		31 81	75 00	2,000 00	2,135 15	
		32 49		70 00			102 49	
				43 71			43 71	
3,303 93	171 50	75			94 32	600 00	4,170 10	700 01
		13 64		10 00			23 64	
								57
		15 43					15 43	
		30 00		90 00	9 37	250 00	379 27	
		50		962 95	75 75	2,020 00	3,059 20	
		32 06					32 06	
		65			21 00	240 00	261 65	7 65
2,862 83	80 50	65					2,943 98	196 81
197 00		56 75					253 75	
		7 08					7 08	

TABLE No.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.

G. R.	Street Improvement Fund.	Balance Jan. 1, 1897.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
1956	Murray Hill.....	89 88	1,073 77	456 99		1,620 64
2220	Murray Hill.....	780 49	1,176 35			1,956 84
2309	Myrtle.....	131 91	560 65			692 56
2507	McCurdy.....	36 80	413 82			450 62
2370	Nevada.....		308 31	200 00	750 00	1,258 31
2819	Neville.....		679 24	510 00	1,900 00	3,089 24
1812	New.....	77 87				77 87
1876	Norwood.....	2 98	70 81	6 93		80 72
858	North Woodland.....	247 05		187 72		434 77
2878	Oliver.....		1,000 00		5,700 00	6,700 00
2879	Orchard.....		28 00	30 00		58 00
1840	Oregon.....	40 08				40 08
2837	Osborn.....		1,278 37		3,300 00	4,578 37
1819	Outhwaite.....	31 51				31 51
2505	Pearl.....	22,504 17	3,009 53			25,513 70
2283	Pennsylvania.....	230 30	316 16			546 46
1625	Percival.....	56 26				56 26
1958	Platt.....	178 80	445 16	14 82		638 78
1717	Plymouth Place.....	25 50				25 50
2154	Plymouth.....			13 85		13 85
2156	Poe.....			13 29		13 29
	<i>Forward</i>.....	.....	.....	.....	.....	.....

127.—Continued.

OF RECEIPTS AND DISBURSEMENTS.—SEWERS.

DISBURSEMENTS.

Contract.	Inspection.	Miscellaneous.	Abate-ments.	Transfers.	Interest.	Loans.	Total Disbursements	Balance Dec. 31, 1897.
\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
			1,139 88	490 76			1,620 64	
		1 70			24 00	640 00	665 70	1,291 14
		50			42 00	480 00	522 50	170 06
		59			33 25	380 00	413 84	36 78
931 90	45 50	1 05			24 10	150 00	1,152 55	105 76
2,384 55	84 00	50			61 00	380 00	2,910 05	179 19
								77 87
		45 72		35 00			80 72	
		50 00		384 77			434 77	
4,445 98	437 50						4,883 48	1,816 52
	21 00						21 00	37 00
		40 08					40 08	
3,483 59	117 25	1 95			105 90	660 00	4,368 69	209 68
		21 51		10 00			31 51	
10,011 22	334 25	302 25			218 75	2,500 00	13,366 47	12,147 23
		1 30			29 75	340 00	371 05	175 41
		56 26					56 26	
		30 25	20 00	588 53			638 78	
		25 50					25 50	
		13 85					13 85	
		13 29					13 29	

TABLE No.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.

C. R.	Street Improvement Fund.	Balance Jan. 1, 1897.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
1626	Praine.....	108 92				108 92
2838	Prosser.....		737 69	800 00	1,850 00	3,387 69
2812	Quebec.....		1,600 96	1,400 00	4,250 00	7,250 96
1080	Quincy.....	256 65	78 05			334 70
2310	Race.....	45 72	259 35			305 07
1072	Ramsey.....	44 37				44 37
1863	Randolph.....	31 68				31 68
2439	Rawlings.....		1,224 97		3,500 00	4,724 97
2438	Remington.....		439 69	500 00	1,250 00	2,189 69
2916	Republic Place.....		283 00			283 00
2816	Rhodes.....		724 54		1,500 00	2,224 54
2284	Rickey.....	93 32	237 43			330 75
2825	Rockert.....		389 50		1,000 00	1,389 50
2431	Rockford.....		371 81	340 00	570 00	1,281 81
2411	Ruggles.....		482 47		1,200 00	1,682 47
1780	Russell.....	31 89	9 26			41 15
2503	Russell.....	201 23	369 01			570 24
2375	Rutland.....		548 39	800 00	1,450 00	2,798 39
2625	Sackett Alley.....		300 00	20 00		320 00
1814	Sage.....	19 94	4 82	6 51		31 27
2826	Schaefer.....		654 55	370 00	1,600 00	2,624 55
	<i>Forward</i>					

127.—Continued.

OF RECEIPTS AND DISBURSEMENTS.—SEWERS.

DISBURSEMENTS.

Contract.	Inspection.	Miscellaneous.	Abate-ments.	Transfers.	Interest.	Loans.	Total Disbursements	Balance Dec. 31, 1897.
\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
		25 00		83 92			108 92	
2,142 71	110 25	65			54 00	370 00	2,677 61	710 08
6,000 61	224 00	1 95			129 00	850 00	7,205 56	45 40
								334 70
		65			17 50	200 00	218 15	86 92
		44 37					44 37	
		31 68					31 68	
3,571 47	119 00	1 30	13 33		112 40	700 00	4,517 50	207 47
1,734 68	47 25	20 80			39 30	250 00	2,092 03	97 66
199 25	45 50						244 76	38 24
1,676 40	73 50	50					1,750 40	474 14
		25			14 00	160 00	174 25	156 50
965 20	66 50	1 30			31 40	200 00	1,264 40	125 10
829 16	50 75	1 05			18 36	190 00	1,089 32	192 49
1,318 57	63 00	65			38 50	240 00	1,660 72	21 75
		41 15					41 15	
		25			23 45	268 00	291 70	278 54
2,319 28	94 50	9 30			42 30	290 00	2,795 38	3 01
		319 86					319 86	14
		31 27					31 27	
1,985 04	64 75	1 05			46 65	320 00	2,427 49	197 06

TABLE No.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.

G. R.	Street Improvement Fund.	Balance Jan. 1, 1897.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
2822	Sooville Lane.....		288 99	3,000 00	900 00	4,188 99
2162	Soranton.....			81 33		81 33
2311	Soranton	342 20	1,117 04			1,459 24
1690	Seneca.....	2,646 82		58 29		2,705 11
2208	Seward.....	1,470 54	101 18			1,571 72
2235	Shelburne.....	120 87	399 12	175 00		694 99
2286	Sherbrook	123 87	337 16	32 16		493 19
1628	Sheriff... ..	18 06		621 95		640 01
1959	Sherman and Lessing.....	473 24	1,327 13	61 65		1,862 02
1479	Shipherd	45 05		94 95		140 00
1815	Slater.....	19 36				19 36
1816	Solon	261 11		5 98		267 09
2164	South Grant.....			24 39		24 39
2809	Sowinski.....		1,221 79	50 00	2,400 00	3,671 79
2409	Spangler.....	20 50				20 50
2839	Standard		770 13	600 00	1,600 00	2,970 13
1960	Stanton	199 32	852 22	8 56		1,060 10
1495	Starkweather.....	66 34				66 34
2025	Starkweather.	44 10				44 10
2853	State				1,200 00	1,200 00
1480	St. Clair.....	9 82		70 18		80 00
	<i>Forward</i>					

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OF RECEIPTS AND DISBURSEMENTS.—SEWERS.

[illegible]

TABLE NO.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.

Cd.	Street Improvement Fund.	Balance Jan. 1, 1897.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward.</i>	\$.....	\$.....	\$.....	\$.....	\$.....
2374	Stella Place.....	3 00				3 00
2221	Summit.....	5 34	23 45			28 79
1868	Tennyson.....	59 05	940 55			999 60
2166	Terrace.....		97 72	103 39		201 11
2301	Thurman.....	79 73	177 59	66 50		323 82
2302	Thurman.....	355 62	475 66			831 28
2843	Tod.....		701 09			701 09
2847	Tod.....		97 26			97 26
2335	Track.....	181 17	733 55			914 72
2820	Tremont.....		1,052 26	700 00	2,750 00	4,502 26
2167	Trowbridge.....			97 23		97 23
2026	Trumbull.....	801 00	1,865 82	21 74		2,638 56
2506	Union.....	32,602 41	8,253 38			40,855 79
2424	Wabash.....		658 07	380 00	1,700 00	2,738 07
1271	Wade.....	57 31				57 31
2222	Walnut.....	1,750 57		36 26		1,786 83
2240	Walworth.....	2,089 30		301,000 00		303,089 30
1539	Waring.....	52 64				52 64
1856	Wason.....	1,312 55		249 92		1,562 47
2287	Watkins.....	117 48	213 34			330 82
2209	Watterson.....	2,387 65	80 00	59 93		2,527 58
	<i>Forward.</i>					

127.—Continued.

OF RECEIPTS AND DISBURSEMENTS.—SEWERS.

DISBURSEMENTS.

Contract.	Inspection.	Miscellaneous.	Abate-ments.	Transfers.	Interest.	Loans.	Total Disbursements	Balance Dec. 31, 1897.
\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
		3 00					3 00	
								28 79
		30 25		999 35			999 60	
					12 60	140 00	152 60	48 51
		25			10 50	100 00	130 75	193 07
		75		66 50	26 25	300 00	393 50	437 78
		1 95					1 95	699 14
		40					40	96 86
		65	20 68		42 00	480 00	543 33	371 39
3,654 20	80 50	75			88 25	550 00	4,373 70	128 56
								97 23
		1 00		1,961 31	26 25	700 00	2,688 56	
23,606 19	817 25	35 55	107 62				24,566 61	16,289 18
2,107 70	103 25	25			49 55	340 00	2,600 75	117 32
		57 31					57 31	
		30 00	1,403 66	353 17			1,786 83	
69,050 18	2,641 26	9,670 16		12,830 00			94,191 60	208,897 70
		52 64					52 64	
		40 00		1,522 47			1,562 47	
		65			16 45	188 00	205 10	125 72
		30 00	2,497 58				2,527 58	

TABLE No.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.

G. R.	Street Improvement Fund.	Balance Jan. 1, 1897.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward.</i>	\$.....	\$.....	\$.....	\$.....	\$.....
1850	Weckerling.	3 62		6 32		9 94
2428	Wenham.....	453 19	659 67	250 00		1,362 86
2452	West Fish.....			1,057 89		1,057 89
2210	West Franklin.....	4,454 84		205 13		4,659 97
2453	West Marvin.....			8 01		8 01
2168	West Newburgh.....			62 37		62 37
2223	Willson.....	2,068 15	2,582 05	4,550 00		9,190 20
2344	Willson.....	6,552 97	1,875 97			8,428 94
2802	Willson.....	26,301 27	3,234 57	700 00		30,235 84
2343	Wilnars.....	318 75	541 57			860 32
1818	Wood.....	4 60		24 01		28 61
2456	Woodbridge.....			9 73		9 73
2197	Woodland Hills.....	29 99				29 99
1872	Woolsey.....	2 98	2,714 00			2,716 98
2288	Yeakel.....	38 28	792 37	50 00		880 65
2821	York.....		47 92		100 00	147 92
2422	Young	562 47	716 24	80 00		1,358 71
2037	York.....	20				20
	Totals.....	\$184,910 94	\$183,152 39	\$477,959 36	\$119,990 00	\$916,012 69

127.—Concluded.

OF RECEIPTS AND DISBURSEMENTS.—SEWERS.

DISBURSEMENTS.

Contract.	Inspection.	Miscellaneous.	Abatement.	Transfers.	Interest.	Loans.	Total Disbursements	Balance Dec. 31, 1897.
\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
		6 74	3 20				9 94	
207 58		330 50			113 77	700 00	1,351 85	11 01
					30 00	1,000 00	1,030 00	27 39
		30 00	4,371 60	258 87			4,659 97	
								8 01
								62 37
5,170 68		50	696 00		119 25	3,180 00	9,166 43	23 77
398 46		2 55		5,700 00	126 00	1,440 00	7,667 01	761 93
25,067 01	847 00	615 97			455 60	3,200 00	30,185 58	50 26
104 51		1 05			35 00	400 00	540 56	319 76
		23 61		5 00			28 61	
								9 73
		29 99					29 99	
		4 30			95 25	2,540 00	2,639 55	77 43
		1 70			70 00	800 00	871 70	8 95
112 80		25			3 25	20 00	136 30	11 62
198 69		330 25			113 73	700 00	1,337 67	21 04
		20					20	
\$365,917 97	\$14,897 64	\$15,430 57	\$53,431 67	\$42,945 96	\$6,880 52	\$ 69,274 00	\$568,778 33	\$347,234 36

TABLE No.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.

Ci.	Street Improvement Fund.	Balance Jan. 1, 1897.	Taxes.	Transfers.	Loans.	Total Receipts.
2396	Anthony.....		\$ 133 62	\$ 49 28		\$ 182 90
1938	Baynet.....			5 92		5 92
1940	Basetta†.....			6 82		6 82
1894	Berlin†.....			106 72		106 72
2404	Berry.....		150 34	27 09		177 43
2299	Berwick.....	150 09		38 15		188 24
2356	Bismarck.....		979 88	163 96		1,143 84
1886	Brown.....	270 66	35 57			306 23
2391	Canal ..		649 48			649 48
2402	Colfax.....		3,428 15	1,645 11		5,073 26
2239	Dana.....	93 86		588 56		682 42
1936	Dartmouth†.....			3 85		3 85
1934	Dennison†.....			22 14		22 14
2352	Dike.....	312 15	539 42			851 57
2401	Edmunds.....		609 49	250 73		860 22
1950	Eltont.....			5 43		5 43
2500	Engle.....	219 96		95 09		315 07
1952	Florence†.....			40 80		40 80
1955	Franklin†.....			2 54		2 54
2488	Fuller.....	109 52		22 92		132 44
974	Gaylord.....	386 22		207 07		593 29
2850	Gibb.....		94 10	10 00		104 10
	Forward.....					

128.

OF RECEIPTS AND DISBURSEMENTS.—GRADINGS AND CURBINGS.

DISBURSEMENTS.

Contract.	Inspection.	Miscellaneous.	Abate-ments.	Transfers.	Interest.	Loans.	Total Disbursements.	Balance Dec. 31, 1897.
\$ 120 25	\$ 13 50	\$ 37 33		\$ 11 82			\$ 182 90	
								\$ 5 92
								6 82
								106 7½
106 20	13 50	38 66		17 07			177 43	
		25 00		163 24			188 24	
643 14	18 00	53 47		429 23			1,143 84	
		25 00		281 23			306 23	
		50					50	648 98
		31 96	3,187 44	1,903 86			5,073 26	
187 93		30 00		464 49			682 42	
								3 85
								22 14
		50			\$ 36 75	\$ 420 00	457 25	394 32
678 27	54 00	25 25		102 70			860 22	
								5 43
		65 00		250 07			315 07	
								40 80
								2 54
		30 00		102 44			132 44	
		129 00		473 29			593 29	
39 63		25 00		48 47			104 10	

TABLE No.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.

C. N.	Street Improvement Fund.	Balance Jan. 1, 1897.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
2849	Goulder.....		630 78	464 78		1,095 56
1133	Hamlet.....	207 32		45 09		253 01
1908	Hartnell†.....			93 22		93 22
2388	Harper.....		1,164 01	341 79		1,505 80
1989	Henry†.....			7 53		7 53
1909	Highland†.....			38 48		38 48
1426	Homewood.....	606 93				606 93
1992	Huntington†.....			5 93		5 93
1974	Jones.....	1,511 85	1,800 30	241 48		3,553 63
1792	Kennedy.....	864 87	17 78			882 65
1999	Larnder†.....			14 09		14 09
1913	Lawn†.....			1 03		1 03
1686	Leroy.....	62 39		51 98		114 37
1040	Little.....	161 14				161 14
1917	Lowert.....			18 27		18 27
2389	Mecca.....		777 13	130 10		907 23
2150	Milford*.....			3 32		3 32
2432	Morgan.....		3,835 83	71 00		3,906 83
2124	Mt. Vernon*.....			5 77		5 77
1930	McCart†.....		109 56	138 71		248 27
2377	Ocean.....		1,083 48	458 20		1,491 68
	<i>Forward</i>					

OF RECEIPTS AND DISBURSEMENTS.—GRADINGS AND CURBINGS.

[illegible]

TABLE NO.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.

G. F.	Street Improvement Fund.	Balance Jan. 1, 1897.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
2390	Otis.....		185 32	50 00		235 32
2385	Pier.....		783 98	137 25		921 13
2226	Ramsey.....	449 59				449 59
732	Root.....	218 54				218 54
2006	Scovill†.....			9 77		9 77
2006	Seward†.....			4 01		4 01
2851	Seymour.....		1,862 00	1,020 16	900 00	3,782 16
2007	Smith†.....			18 61		18 61
2848	Smithfield.....		457 50	300 00		817 50
2504	Tod.....	38 56				38 56
2342	Tod.....	16 41	22 51	210 00		248 92
2453	Tracy.....		573 91	562 03	300 00	1,435 94
2009	Trenton†.....			2 08		2 08
2010	Trenton†.....			62 66		62 66
2013	Ware†.....			3 85		3 85
2378	Warner Road.....	36	7,004 83			7,006 19
2842	Watterson.....		799 84	263 26	300 00	1,363 10
2455	Williams*.....			7 97		7 97
1077	Wheatland.....	421 01				421 01
	Totals	\$6,134 20	\$27,678 76	\$8,195 29	\$1,500 00	\$43,448 16

*Transferred from "Brooklyn funds," (see table No. 114).

†Transferred from "West Cleveland funds," (see table No. 115.)

128.—Concluded.

OF RECEIPTS AND DISBURSEMENTS.—GRADINGS AND CURBINGS.

DISBURSEMENTS.

Contract.	Inspection.	Miscellaneous.	Abatement.	Transfers.	Interest.	Loans.	Total Disbursements.	Balance Dec. 31, 1897.
\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
89 03		25 25		121 04			235 32	
597 84	54 00	30 50		238 84			921 18	
		30 00		419 59			449 59	
								218 54
								9 77
								4 01
2,077 65	153 00	30 00		592 60	28 90	900 00	3,782 16	
								18 61
		25 56	733 26	58 68			817 50	
		25 00		8 56			33 56	
225 01							225 01	23 91
811 00	63 00	30 50	25 20	196 60	9 64	300 00	1,435 94	
								2 08
								62 06
								3 85
		71 95	46 50				118 45	6,836 74
765 85	49 50	30 25		207 86	9 64	300 00	1,383 10	
								7 97
								421 01
39,821 79	3007 50	\$1,255 93	\$7,775 97	\$11,105 84	\$38 83	\$2,050 00	\$32,795 96	\$10,652 30

TABLE

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT OF RE-
MISCEL-

RECEIPTS.

C. R.	Street Improvement Fund.	Balance Jan. 1, 1897.	Taxes.	Transfers.	Loans.	Total Receipts.
2116	Aiken and East View*	\$.....	\$.....	\$ 536 88	\$.....	\$ 536 88
2118	Arthur*			6 28		6 28
1939	Baynet			7 77		7 77
1897	Baynet			1 04		1 04
1941	Bazetta†			32 98		32 98
1891	Bazetta†			9 37		9 37
1942	Beres†			5 38		5 38
1927	Beres†			4 93		4 93
1895	Berlin†			1 58		1 58
1892	Berlin†			6 58		6 58
1893	Berlin†			7 49		7 49
2742	Berwick		170 00			170 00
1944	Cherry†			4 34		4 34
1896	Cherry†			3 37		3 37
1937	Cherry†			192 65		192 65
2102	Chestnut*			187 71		187 71
1712	Clara	129 33	844 50			973 83
1945	Colgate†			13 52		13 52
1897	Colgate†			93 68		93 68
1898	Dartmouth†			79 05		79 05
1935	Davis†			122 47		122 47
1946	Davis†			6 99		6 99
	<i>Forward</i>					

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CEIPTS AND DISBURSEMENTS.—WIDENINGS, OPENINGS AND LANEOUS.

[illegible]

TABLE NO.

THE STREET IMPROVEMENT FUNDS. - LOCAL ACCOUNT OF RE-
MISCEL-

RECEIPTS.

pt C	Street Improvement Fund.	Balance Jan. 1, 1897.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>.....	\$.....	\$.....	.....	\$.....	\$.....
1901	Dennison†.....			28 46		28 46
1947	Dennison†.....			9 01		9 01
1948	Detroit†.....			4 23		4 23
1949	Detroit†.....			230 11		230 11
1900	Detroit†.....			3 74		3 74
2103	Dover*.....			297 34		297 34
2122	Eagle*.....			262 64		262 64
1951	Elton†.....			318 06		318 06
1903	Elton†.....			38 26		38 26
2256	Erie Extension.....	3,678 85		5,917 74		9,596 59
2574	Euclid.....		77 00	80 00		157 00
1951	Florence†.....			68		68
1953	Florence†.....			5 90		5 90
1904	Franklin†.....			5 28		5 28
1987	Franklin†.....			4 97		4 97
1906	Fruitland†.....			210 02		210 02
2334	Frease.....	7 72	1,043 94	5 00		1,056 66
2104	Grace*.....			116 85		116 85
215	Grand.....	207 52				207 52
2106	Grand Army Court*.....			86 77		86 77
2107	Greenwood*.....			1,300 25		1,300 25
	<i>Forward</i>					

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CEIPTS AND DISBURSEMENTS.—WIDENINGS, OPENINGS AND
LANEOUS.

[illegible]

TABLE NO.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT OF RE-
MISCEL-

RECEIPTS.

C. R.	Street Improvement Fund.	Balance Jan. 1, 1897.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
1983	Hartnell†.....			8 47		8 47
1089	Highland.....	22 38	672 64	20 00		715 02
1981	Hilldale†.....			90 97		90 97
1993	Huntington†.....			11 92		11 92
1994	Huntington†.....			144 51		144 51
1910	Jackson†.....			4 36		4 36
1916	Lake†.....			14		14
1997	Lake†.....			4 48		4 48
1998	Lake†.....			37 74		37 74
1914	Larnder†.....			63 64		63 64
1912	Lawn†.....			44 29		44 29
2001	Madison†.....			3 02		3 02
1920	Madison†.....			1 69		1 69
2147	Maple*.....			25 49		25 49
2148	Marvin*.....			6 28		6 28
1921	Morrise†.....			9 27		9 27
1918	McCart†.....		146 09	140 18		286 27
2153	Newburgh*.....			6 21		6 21
2126	Newburgh, Rhodes and Greenwood*.....		1 80	849 32		851 12
2157	North Plymouth*.....			14 58		14 58
2128	Pleasant*.....			64 38		64 38
	<i>Forward</i>					

129.—Continued.

CEIPTS AND DISBURSEMENTS.—WIDENINGS, OPENINGS AND
LANEOUS.

DISBURSEMENTS.

[illegible]

TABLE No.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT OF RE-
MISCEL-

RECEIPTS.

Ac. Ct.	Street Improvement Fund.	Balance Jan. 1, 1897.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
2155	Plymouth*.....			7 20		7 20
2129	Poe*.....			307 28		307 28
2130	Ralph*.....			206 31		206 31
2138	Sherman.....				2,700 00	2,700 00
2008	Smith†.....			3 40		3 40
2528	Spangler.....	49 76				49 76
2028	Stoneman.....	111 66	981 00	84 45		1,177 11
2131	Titus and East View*.....			226 51		226 51
2011	Trenton†.....			4 49		4 49
486	Walworth.....	280 41		11,750 00		12,040 41
2132	West Fish*.....			917 13		917 13
2231	West Madison†.....			163 07		163 07
	Totals	\$ 4,459 88	\$ 3,938 97	\$ 25,489 15	\$ 2,700 00	\$ 36,566 00

*Transferred from "Brooklyn funds," (see table No. 114).

†Transferred from "West Cleveland funds," (see table No. 115).

129.—Concluded.

CEIPTS AND DISBURSEMENTS.—WIDENINGS, OPENINGS AND
LANEOUS.

DISBURSEMENTS.

Contract.	Inspection.	Miscellaneous.	Abate-ments.	Transfers.	Interest.	Loans.	Total Disbursem'ts	Balance Dec. 31, 1897.
\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
.....	7 20
.....	8 70	290 00	298 70	8 58
.....	5 40	90 00	95 40	109 91
.....	2,542 15	.....	.....	.....	.....	2,542 15	157 85
.....	3 40
.....	49 76	.....	.....	.....	.....	49 76	.....
.....	1,087 75	.....	89 36	.....	.....	1,177 11	.....
.....	6 00	200 00	206 00	20 51
.....	4 49
.....	447 82	.....	.....	1,500 00	10,000 00	11,947 82	92 59
.....	26 10	870 00	896 10	21 03
.....	163 07
\$ 6,183 50	\$ 242 86	\$ 7,066 73	\$ 9 56	\$ 89 36	\$ 1,792 80	\$ 15,190 00	\$ 30,564 83	\$ 6,001 17

TABLE

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.

G. R.	Street Improvement Fund.	Balance Jan. 1, 1897.	Taxes.	Transfers.	Loans.	Total Receipts.
.....	Tax Refund (new).....	\$ 15,493 28	\$.....	\$ 111,345 02	\$.....	\$ 126,838 30
.....	Tax Refund (old).....	261 49	.....	2,946 17	.....	3,207 66
.....	Tax abatement.....	2,061 70	.....	8,300 78	.....	10,362 48
.....	Curbing.....	87 28	.....	164 05	.....	251 33
	Totals.....	\$ 17,923 75	.....	\$ 122,756 02	.....	\$ 140,679 77

No. 130.

OF RECEIPTS AND DISBURSEMENTS.—ABATEMENTS.

DISBURSEMENTS.

Contract.	Inspection.	Miscellaneous.	Abate-ments.	Transfers.	Interest.	Loans.	Total Disbursem'ts	Balance Dec. 31, 1897.
\$.....	\$.....	\$.....	\$95,717 01	\$ 2,989 88	\$.....	\$.....	\$ 98,706 89	\$ 28,131 41
.....	2,240 04	.....	.....	.....	2,240 04	967 62
.....	3,827 33	.....	.....	.....	3,827 33	6,555 15
.....	202 16	.....	.....	.....	202 16	49 17
.....	\$101,986 54	\$ 2,989 88	.....	.....	\$ 104,976 42	\$ 35,703 35

TABLE

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.

G. R.	Street Improvement Fund.	Balance Jan. 1, 1897.	Taxes.	Transfers.	Loans.	Total Receipts.
.....	Pavings.....	\$ 223,720 14	\$ 431,331 96	\$ 134,593 81	\$ 195,770 00	\$ 985,395 91
.....	Sewers.....	184,910 94	133,152 39	477,969 36	119,990 00	916,012 69
.....	Gradings and Curbing.....	6,134 20	27,678 76	8,135 20	1,500 00	43,448 16
.....	Openings, widenings, etc.....	4,459 88	3,936 97	25,469 15	2,700 00	36,566 00
.....	Abatement funds.....	17,923 75	.....	122,756 02	.....	140,679 77
	Totals.....	\$ 437,148 91	\$ 596,100 08	\$ 768,893 54	\$ 319,960 00	\$2,122,102 53

No. 131.

OF RECEIPTS AND DISBURSEMENTS.—RECAPITULATION.

DISBURSEMENTS.

Contract.	Inspection.	Miscellaneous.	Abate-ments.	Transfers.	Interest.	Loans.	Total Disbursements	Balance Dec. 31, 1897.
\$243,176 15	\$ 7,796 25	\$ 8,569 42	\$ 9,582 96	\$126,186 28	\$34,696 47	\$ 363,116 00	\$ 793,123 53	\$ 192,272 38
365,917 97	14,897 64	15,430 57	53,431 67	42,945 96	6,880 52	69,274 00	568,778 33	347,234 36
9,821 79	697 50	1,255 93	7,775 97	11,105 84	88 83	2,050 00	32,795 86	10,652 30
6,183 50	242 86	7,066 73	9 58	89 36	1,792 80	15,180 00	30,564 83	6,001 17
.....	.....	.....	101,986 54	2,989 88	.....	.....	104,976 42	35,703 35
\$625,099 41	\$23,634 25	\$32,322 65	\$172,786 72	\$183,317 32	\$43,458 62	\$ 449,620 00	\$1,530,238 97	\$ 591,863 56

PART IV.

THE SINKING FUNDS.

TABLE No. 132.

REPORT OF THE SINKING FUND COMMISSIONERS.

(For comparison of earnings and assets with former years, see table No. 144.)

To the Honorable Council of the City of Cleveland:

GENTLEMEN—The Sinking Fund Commissioners, in compliance with law, submit their report for the year 1897.

SINKING FUND OF 1862.

THIRTY-SIXTH ANNUAL REPORT.

The gross income for the year is.....	\$ 74,664 41
The expense for the year is.....	650 00
Leaving the net income.....	\$ 74,014 41

1897.	RECEIPTS.	
January 1—	Cash on hand.....	\$ 16,884 29
January 1—	Interest on deposits.....	238 40
February 1—	Semi-annual dividend on \$180,000 stock L. S. & M. S. Ry. at 3%..	5,400 00
March 1—	Semi-annual interest on \$637,000 Cleveland City 6% Bonds.....	19,110 00
April 1—	Semi-annual interest on \$211,000 Cleveland City 5% Bonds.....	5,275 00
April 1—	Semi-annual interest on \$25,000 Cleveland City 4% Bonds.....	500 00
April 1—	For \$2,000 Cleveland 5% Bonds matured.....	2,000 00
April 14—	Semi-annual interest due May 1 on \$160,326 Cleve'd City 5% Notes	4,008 14
April 14—	Interest September 15 to May 1 on \$44,100 Cleve'd City Notes (5%)	1,378 12
April 14—	For \$18,117 Cleveland City 5% Notes due May 1.....	18,117 00
July 1—	Interest on deposits.....	143 17
August 2—	Semi-annual dividend on \$180,000 stock of L. S. & M. S. Ry. at 3%	5,400 00
August 28—	Semi-annual interest due Sept. 1 on \$637,000 Cleve'd City 6% Bonds	19,110 00
August 28—	Semi-annual interest due Oct. 1 on \$209,000 Cleve'd City 5% Bonds	5,225 00
August 28—	Semi-annual interest due Oct. 1 on \$25,000 Cleve'd City 4% Bonds	500 00
August 28—	Semi-annual interest due Oct. 1 on \$500,000 Cleve'd City 4% Bonds	10,000 00
August 28—	For \$445,000 Cleveland City 6% Bonds due September 1.....	445,000 00
August 28—	For \$30,000 Cleveland City 5% Bonds due September 1.....	30,000 00
September 2—	Semi-annual interest due Nov. 1 on \$186,309 Cleve. City 5% Notes	4,657 72
September 2—	Interest May 23 to Nov. 1 on \$39,000 Cleveland City 5% Notes....	1,189 40
September 2—	Interest April 1 to Nov. 1 on \$10,800 Cleveland City 5% Notes....	315 01
September 2—	Interest April 20 to Nov. 1 on \$15,900 Cleveland City 5% Notes..:	421 44
September 2—	Interest May 11 to Nov. 1 on \$5,320 Cleveland City 5% Notes....	126 34
September 2—	For \$13,613 Cleveland City 5% Notes due November 1.....	13,613 00
	Total	\$ 603,612 03

TABLE NO. 132.—Continued.

CASH DISBURSEMENTS.		
March 24—	For \$39,200 Cleveland City 5% Notes.....	\$ 39,200 00
April 1—	For \$10,800 Cleveland City 5% Notes.....	10,800 00
April 20—	For \$15,900 Cleveland City 5% Notes.....	15,900 00
May 11—	For \$5,820 Cleveland City 5% Notes.....	5,820 00
August 28—	For \$500,000 Cleveland City 4% Bonds	500,000 00
August 28—	For accrued interest on same April 1 to September 1.	8,333 33
September 2—	For 26,230 Cleveland City 5% Notes.....	26,230 00
Sept'mb'r 22—	For 800 Cleveland City 5% Notes.....	800 00
Novemb'r 15—	For \$450 Cleveland City 5% Notes.....	450 00
Novemb'r 15—	For expenses for the year.....	650 00
Novemb'r 15—	Cash on hand December 31. 1897.....	428 70
Total		\$ 608,612 03

The following items constitute the Sinking Fund of 1862,
January 1, 1898 :

Cleveland City 6% Bonds, par value.....	\$ 192,000 00
Cleveland City 5% Bonds, par value.....	179,000 00
Cleveland City 4% Bonds, par value.....	525,000 00
Cleveland City 5% Notes, par value.....	271,896 00
1,800 shares capital stock Lake Shore & Mich. So. Ry. par value.....	180,000 00
Chicago & Atchison Bridge Co. 6% Bonds, par value.....	94,000 00
Cash on deposit in bank.....	428 70
Total assets.....	\$1,442,324 70

TABLE NO. 132—Continued.
VIADUCT SINKING FUND.

SEVENTEENTH ANNUAL REPORT.

The income for the year from interest is.....	\$ 18,437 64
Payments into City Treasury to redeem city Bonds.....	25,000 00
Leaving the net depletion of the Fund.....	6,562 36

1897.

CASH RECEIPTS.

January 1—	Cash on hand.....	\$ 22,746 96
January 1—	Interest on deposits.....	183 64
April 1—	Semi-annual interest on \$200,000 Cleveland City 4½ Bonds.....	4,000 00
April 1—	Semi-annual interest on \$8,000 Cleveland City 5½ Bonds.....	200 00
April 13—	Semi-annual interest due May 1 on \$28,684 Cleve'd City 5½ Notes..	717 10
May 25—	Semi-annual interest due June 1 on \$190,000 Cleve'd City 4½ Bonds	3,800 00
July 1—	Interest on deposits.....	200 39
August 28—	Semi-annual interest due Oct. 1 on \$200,000 Cleve'd City 4½ Bonds.	4,000 00
September 2—	Semi-annual interest due Nov. 1 on \$28,684 Cleve'd City 5½ Notes..	717 10
August 28—	Semi-annual interest due October 1 on \$8,000 5½ Bonds	200 00
August 28—	Interest March 23 to Nov. 1 on \$8,700 Cleveland City 5½ Notes.....	264 00
August 28—	Interest April 1 to Nov. 1 on \$15,060 Cleveland City 5½ Notes.....	438 96
August 28—	For \$32,474 Cleveland City 5½ Notes maturing November 1.....	32,474 00
December 1—	Semi-annual interest on \$190,000 Cleveland City 4½ Bonds.....	3,800 00
Total		\$ 73,742 14

TABLE No. 132—Continued.

1887—

CASH DISBURSEMENTS.

March 24—	For \$8,700 Cleveland City 5% Notes.....	\$ 8,700 00
April 1—	For \$15,050 Cleveland City 5% Notes.....	15,050 00
May 25—	Payment into City Treasury upon requisition of City Auditor....	13,000 00
September 2—	Interest @ 5% May 25 to Sept. 2 on \$5,103 borrowed of City Hall Sinking Fund.....	68 54
September 22—	For \$5,000 Cleveland City 5% Notes.....	5,000 00
September 27—	Payment into City Treasury upon requisition of City Auditor....	12,000 00
November 15—	For \$3,000 Cleveland City 4% Bonds at par and accrued interest...	3,015 00
November 15—	For \$2,250 Cleveland City 5% Notes.....	2,250 00
December 31—	Cash on hand.....	14,658 60
	Total.....	\$ 73,742 14

The following items constitute the Viaduct Sinking Fund
January 1, 1898:

Cleveland City 4% Bonds, par value.....	\$393,000 00
Cleveland City 5% Bonds, par value.....	8,000 00
Cleveland City 5% Notes, par value.....	27,210 00
Cash on deposit in Bank.....	14,658 60
Total assets.....	\$442,868 60

TABLE No. 132.—Continued.
CITY HALL SINKING FUND.

THIRD ANNUAL REPORT.

The income from interest for the year is.....	\$ 11,274 98
Gain by cash received from City Treasurer February 11 and August 6th	69,288 81
Total gain for the year.....	\$ 80,563 79

1897.	CASH RECEIPTS.	
January 1—	Cash on hand.....	\$ 22,921 81
	Interest on deposits.....	290 25
February 11—	Amount received from City Treasurer.....	39,506 75
April 1—	Semi-annual interest on \$14,000 Cleveland City 5% Bonds.....	350 00
	Semi-annual interest on \$6,000 Cleveland City 4% Bonds.....	120 00
April 13—	Semi-annual interest due May 1 on \$87,532 Cleveland City 5% Notes	2,188 31
	Interest from July 16, 1896, to May 1, 1897, on \$2,600 Cleveland City	
	5% Notes.....	102 92
	Interest from Aug. 1, 1896, to May 1, 1897, on \$1,950 Cleveland City	
	5% Notes.....	73 13
	Interest from September 1, 1896, to May 1, 1897, on \$20,400 Cleve-	
	land City 5% Notes.....	680 00
	Interest from September 15, 1896, to May 1, 1897, on \$4,900 Cleve-	
	land City 5% Notes.....	153 12
	Interest from October 6, 1896, to May 1, 1897, on \$17,000 Cleveland	
	City 5% Notes.....	484 00
April 13—	Interest from October 20, 1896, to May 1, 1897, on \$18,000 Cleve-	
	land City 5% Notes	479 04
	Interest from December 1, 1896, to May 1, 1897, on \$1,760 Cleve-	
	land City 5% Notes.....	88 67
	Interest from Dec. 16, 1896, to May 1, 1897, on \$5,400 Cleveland	
	land City 5% Notes.....	101 25
	For \$45,653 Cleveland City 5% Notes due May 1.	45,653 00
July 1—	Interest on deposits.....	118 69
August 1—	For amount received of City Treasurer.....	29,783 06
August 28—	Semi-annual interest due October 1 on \$14,000 Cleveland City 5%	
	Bonds.....	350 00
	Semi-annual interest due October 1 on \$6,000 Cleveland City 4%	
	Bonds.....	120 00

TABLE No. 132.—Concluded.

CASH RECEIPTS.—Continued.		
September 2—	Semi-annual interest due November 1 on \$113,889 Cleveland City 5% Notes.....	2,847 23
	Interest from March 10 to November 1 on \$12,480 Cleveland City 5% Notes.....	1,364 59
	Interest from March 15 to November 1 on \$7,150 Cleveland City 5% Notes.....	224 78
	Interest from April 12 to Nov. 1 on \$38,030 Cleveland City 5% Notes.....	1,049 75
	Interest from May 11 to November 1 on \$5,800 Cleveland City 5% Notes.....	138 46
	For \$46,783 Cleveland City 5% Notes due November 1.....	46,783 00
	Interest 5% May 25 to September 2 on \$5,103 used by Viaduct Sinking Fund.....	68 54
	Total.....	\$195,987 35

1897. CASH DISBURSEMENTS.		
January 8—	For \$6,000 Cleveland City 4% Bonds at par and accrued interest... \$	6,065 75
	For \$5,400 Cleveland City 5% Notes.....	5,400 00
March 11—	For \$42,480 " " "	42,480 00
March 15—	For \$7,150 " " "	7,150 00
April 13—	For \$38,030 " " "	38,030 00
May 11—	For \$5,830 " " "	5,830 00
August 6—	For \$6,500 " " "	6,500 00
September 2—	For \$72,370 " " "	72,370 00
September 22—	For \$12,000 " " "	12,000 00
December 31 —	Cash on hand.....	161 60
	Total.....	\$195,987 35

The following items constitute the assets of the City Hall Sinking Fund January 1, 1898:

Cleveland City 5% Notes, par value.....	\$251,466 00
Cleveland City 5% Bonds, par value.....	14,000 00
Cleveland City 4% Bonds, par value.....	6,000 00
Cash on deposit in bank.....	161 60
Total assets.....	\$271,627 60

Respectfully submitted,

W. BINGHAM,
JAMES BARNETT,
S. T. EVERETT,
ANDREW SQUIRE,
WILLIAM EDWARDS,

CLEVELAND, O., January 1, 1898.

PART V.

LEVIES AND ASSESSMENTS

TO MEET THE EXPENSES OF

1898.

TABLE No. 133.

**THE MUNICIPAL LEVY IN THE TAX OF 1897,
Upon a Valuation of \$141,915,430.00 to meet the
Expenses of the General Funds in 1898.**

(For comparison with former years, see tables Nos. 141 and 142.)

Fund.	Rate of Levy per \$1,000.	Amount Levied.	Estimated Net Receipts.*
General.....	\$.85	\$ 120,628 12	\$ 115,600 00
Bridge.....	.32	45,412 84	44,520 00
Street.....	.89	126,301 73	121,040 00
Park.....	.50	70,957 71	68,000 00
Police	1.58	224,226 38	214,890 00
Sanitary.....	.28	39,736 32	38,080 00
Fire	3.29	466,901 76	447,440 00
Dredging.....	10	14,191 64	13,600 00
Lighting.....	1.55	219,968 92	210,800 00
Street Intersections.....	.44	62,442 79	59,840 00
Paving.....	.40	56,766 17	54,400 00
General Sinking Fund.....	.85	120,628 12	115,600 00
Viaduct Sinking Fund.....	.95	134,814 25	129,200 00
Interest	1.10	156,106 97	150,600 00
Park Interest.....	.50	70,957 71	68,000 00
Total	\$13.60	\$1,930,049 84	\$1,849,600 00

* Auditor's estimate based upon \$134,000,000.00 Duplicate Net Valuation, as follows:

Valuation, \$141,915,430.00x.0136—	\$1,930,049 84
Additions	38,000 00
Old Delinquent tax collections.....	77,000 00
Penalties	4,000 00
Chattel tax	5,000 00
Total.....	\$2,054,049 84
Deduct refundings.....	\$ 5,000 00
“ abatements	52,000 00
“ Treasurer's fees.....	9,000 00
“ Inquisitors' fees.....	11,000 00
“ cost of advertising.....	1,000 00
“ Pension Funds.....	35,000 00
“ unpaid taxes.....	91,449 84
	204,449 84
Net for distribution (equal to \$136,000,000.00x.0136).....	\$1,849,600 00

TABLE No. 134.

AMOUNT OF TAXES LEVIED IN EACH MAIN SEWER
DISTRICT IN 1897 TO MEET THE EX-
PENSES OF 1898.

(For comparison with former years, see table No. 143.)

Last year in which valuation was calculated.	Number of District.	Valuation of Real Property.	Valuation of Personal Property.	Valuation of Mixed Property.	Total Valuation.	Levy per \$1,000	Amount Levied.
1896... ..	1	\$ 6,338,460 00	\$ 1,007,210 00	\$ 212,700 00	\$ 7,558,370 00	.....	\$.....
1894.....	2	9,125,740 00	1,750,985 00	139,800 00	11,016,525 00	.....	.....
1897.....	3	19,857,610 00	2,731,770 00	8,539,560 00	31,128,940 00	1 00	31,128 94
1897.....	4	4,050,990 00	478,860 00	528,940 00	5,056,790 00	3 00	15,170 37
1897.....	5	4,433,310 00	350,370 00	14,530 00	4,798,210 00	3 00	14,394 63
1894.....	6	288,730 00	16,280 00	1,500 00	306,510 00	.....	.....
1897.....	7	11,526,180 00	1,012,120 00	1,026,110 00	13,564,410 00	2 00	27,128 82
1897.....	8	366,870 00	7,620 00	11,020 00	385,510 00	1 00	385 51
1893.....	9	4,814,640 00	7,366,550 00	282,690 00	12,463,880 00	.....	.....
1897.....	10	683,970 00	30,970 00	9,920 00	724,860 00	3 00	2,174 58
1897.....	11	2,580,500 00	193,050 00	79,590 00	2,853,140 00	3 00	8,559 42
1897.....	12	2,553,260 00	152,930 00	225,220 00	2,931,410 00	3 00	8,794 23
1897.....	13	2,319,920 00	275,600 00	122,480 00	2,718,000 00	3 00	8,154 00
1897.....	14	2,681,670 00	89,610 00	197,820 00	2,969,100 00	2 00	5,938 20
1897.....	15	15,895,150 00	1,483,330 00	470,960 00	17,849,440 00	3 00	53,548 32
1897.....	16	2,908,120 00	145,410 00	65,920 00	3,119,450 00	3 00	9,358 34
1897.....	17	2,538,030 00	94,510 00	258,480 00	2,891,020 00	3 00	8,673 07
1897.....	18	1,598,620 00	136,510 00	179,530 00	1,914,660 00	3 00	5,743 98
1897.....	19	344,130 00	7,620 00	.....	351,750 00	3 00	1,055 24
1897.....	20	1,711,970 00	74,370 00	53,880 00	1,840,220 00	3 00	5,520 65
1897.....	21	310,860 00	8,690 00	.....	319,550 00	3 00	958 64
1897.....	C'm	378,530 00	6,040 00	14,220 00	398,790 00	1 00	398 79
Total.....	.....	\$97,307,260 00	\$17,420,405 00	\$12,432,670 00	\$127,160,535 00	.....	\$207,085 73

TABLE NO. 135.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1897.

G. R.	Ord.	Name of Street.	Number of Install- ments.	Instal- ment of 1897.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
1746	3367	Adelbert.....	5	5th	Paving	Euclid	Murray Hill.....	\$ 2,089 74
2596	13281	Ashley Alley.....	3	2nd	"	Huron	Bolivar	643 50
2514	11566	Alanson	5	2nd	"	Central.....	Quincy.....	863 60
2407	11001	Anthony.....	3	2nd	Sewer.....	Ridge.....	Lindsley.....	577 78
2582	12870	Austin Alley.....	3	2nd	Paving ..	Waller	Miami	321 43
2632	14426	Alpha Alley	3	2nd	"	Erie.....	Oak Place.....	228 03
2560	15467	Amesbury	5	1st	"	Hough	367 feet Southerly.....	428 06
2598	15463	Avon Alley.....	3	1st	"	Huron	Bolivar	672 79
2632	15466	Atlas Alley.....	3	1st	"	Ohio	Race.....	304 56
2806	12045	Armitage.....	3	2nd	Sewer....	Willson.....	St. Clair	1,273 41
2334	8306	Ames	5	3rd	"	Miles	500 feet South.....	200 22
2337	8306	Amos	3	3rd	"	East Madison.....	Edwards.....	38 18
2708	16966	Alabama.....	5	1st	Paving	St. Clair	L. S. & M. S. Ry.....	4,196 64
2186	17588	Amesbury, (additional)...	1	1st	Sewer.....	Crawford	Hough.....	113 31
1634	3006	Bright	5	5th	Paving	Lake.....	St. Clair	659 96
1750	3206	Bell.....	5	5th	"	Euclid	Cedar.....	811 ■

TABLE NO. 135.—Continued.

LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1897.

G. R.	Ord.	Name of Street.	Number of Install- ments.	Instal- ment of 1897.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
1964	3658	Brownell.....	5	4th	Re-paving.....	Euclid.....	Scovill.....	\$ 2,118 79
2186	5251	Broadway.....	5	4th	".....	E. L. of Central.....	456 feet westerly.....	723 39
2562	13211	Brownell.....	5	2nd	Paving.....	Scovill.....	Woodland.....	1,049 70
2596	13282	Barn Alley.....	3	2nd	".....	Erle.....	Short Alley.....	604 74
2682	15730	Bell.....	5	1st	".....	Cedar.....	S. end of Bell.....	2,033 13
2630	15064	Bolton.....	5	1st	".....	Quincy.....	Woodland.....	2,442 55
2648	15145	Bank.....	5	1st	Re-paving.....	Superior.....	235 feet N. of Lake St.....	3,592 52
2372	10313	Baker.....	3	2nd	Sewer.....	White.....	N. E. of Baker.....	537 92
2499	8116	Decker Place.....	3	3rd	".....	St. Clair.....	Becker.....	162 30
2437	12049	Bellevue.....	3	2nd	".....	Woolsey.....	Ansel.....	1,092 70
2840	12867	Bliss.....	4	2nd	".....	St. Clair.....	Becker.....	1,135 56
2337	16462	Brandon.....	3	1st	".....	Mayfield Road.....	Paul.....	404 90
2918	16458	Brenton.....	4	1st	".....	Cedar.....	Central.....	1,200 06
2660	17691	Baden Court.....	4	1st	".....	Baden.....	East End.....	105 73
2666	15474	Beta Alley.....	3	1st	Paving.....	Bond.....	Erle.....	983 49
2734	18002	Brenton.....	5	1st	".....	Cedar.....	Central.....	1,654 89

TABLE No. 135.—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1897.

G. R.	Ord.	Name of Street.	Number of Lots.	Inst. of 1897.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
1424	2889	Broadway	1	1st	Paving	Uncollected addition. ..	No. 499	\$ 129 50
2840	12367	Bliss	4	2nd	Sewer	Uncollected addition.	No. 543	17 50
2484	8237	Bridge.....	5	3rd	Paving	Liberty	Gordon	5,173 70
2022	14068	Brooklyn	1	1st	Sewer	Clark	Sackett.....	950 ■
2419	11457	Blaglow.....	3	2nd	"	Clark	Brinnade.....	703 97
2266	7335	Buckley	3	3rd	"	Burton.....	Harbor	497 60
2406	11002	Berry.....	3	2nd	"	Ridge.....	Westerly end.....	553 50
2303	7818	Bradwell.....	3	3rd	"	Pearl	Luverne.....	343 92
2330	8309	Bridge.....	3	3rd	"	Browning	Gordon	720 47
2257	7334	Burton	3	3rd	"	Clark	Storer.....	2,868 41
2426	11559	Bridge.....	3	2nd	"	Gordon	Waverly.....	951 16
2803	16848	Brinnade.....	3	1st	"	Ridge.....	Bigelow	1,132 60
2920	17577	Bergen.....	4	1st	"	Train	Clark.....	640 60
2917	17575	Boulevard	3	1st	"	Desmond	Detroit	778 92
1578	3092	Chestnut.....	5	5th	Paving	Erle.....	Dodge.....	1,835 89
1570	3103	Central.....	6	5th	"	C. & P. R. R.....	East Madison.....	2,986 92

TABLE No. 135.—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1897.

G. R.	Ord.	Name of Street.	Number of Install- ments.	Instal- ment of 1897.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
1762	3370	Canal.....	5	5th	Re-paving.....	Michigan.....	Seneca.....	\$ 758 87
1838	3492	Center.....	5	5th	"	Cuyahoga River.....	West Street.....	1,879 99
1754	3368	Croton.....	5	5th	Paving.....	Jackson.....	Care.....	5,068 90
1712	3389	Clara.....	5	4th	Opening.....	N. L. White Mfg. Co.....	Luther.....	834 92
2038	4854	Cornell.....	5	4th	Paving.....	1,111 feet East of Euclid..	Murray Hill.....	919 48
1968	3662	Cheshire.....	5	4th	"	Prospect.....	Central.....	366 75
2068	5184	Crawford Road.....	5	4th	"	Wade Park avenue.....	Hough Avenue.....	2,194 92
2232	4686	Claremont	5	4th	"	Wade Park avenue.....	N. line of lot 26	628 94
2556	12344½	Central.....	5	2nd	"	East Madison.....	Alanson .. .	3,450 45
2572	12398	Cherry.....	5	2nd	"	Perry.....	Cherry Alley.....	310 74
2578	13293	Cherry Alley.....	5	2nd	"	Cherry.....	Odell Alley.....	455 68
1776	3340	Crawford Road.....	5	5th	"	Hough	Genesee.....	1,167 86
2654	15466	Cross Alley.....	3	1st	"	Woodland	Broadway	630 61
2692	15731	Cobleigh.....	5	1st	"	Willson.....	East-erly end.....	311 45
2941	12865	Carry.....	3	2nd	Sewer	Willson	Armitage.....	350 56
2921	12857	Cumberland.....	3	2nd	"	Bolton.....	Oakdale.....	634 25

TABLE No. 135.—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1897.

G. R.	Ord.	Name of Street.	Number of Installments.	Installment of 1897.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2410	12180	Czar	3	2nd	Sewer	Broadway.....	Colorado.....	\$ 790 08
2845	13297	Case	3	2nd	"	Woodland.....	S. end of Case.....	549 22
2836	837	Corwin.....	3	3rd	"	S. Woodland.....	Holton.....	450 39
2854	13424	Carrabelli.....	2	1st	"	S. L. of Lot No. 11.....	Mayfield.....	835 92
2910	16850	Chandler.....	3	1st	"	St. Clair.....	1,030 feet southerly.....	1,279 99
2911	16960	Chandler.....	4	1st	"	1,080 feet S. of St. Clair.....	Dona'd	1,171 41
2921	17177	Cornelia	4	1st	"	Hodge.....	Woolsey	669 08
2981	9185	Canal.....	3	2nd	Grading.....	Factory.....	Commercial.....	1,285 17
2963	14 06	Crosby.....	1	1st	Grading and Culvert.....	Worley	Canton.....	707 50
432	17589	Cuyahoga River.....	1	1st	Dredging	Government Pier.....	N. line of orig. lot No. 281.....	5,010 68
2996	16336	Cemetery.....	5	1st	Paving.....	Quincy.....	Woodland	918 61
2223	5396	Cedar.....	5	4th	"	Fairmount.....	Doan Brook.....	1,083 41
2718	17586	Court Place.....	3	1st	Reparing.....	St. Clair	Brown Alley.....	179 32
1590	3338	Columbus	5	5th	Paving.....	Lorain.....	Brevier.....	2,796 15
2870	13316	Clark.....	5	2nd	"	Pearl	Jennings	2,362 03
2552	12989	Center.....	5	2nd	Reparing.....	Cuyahoga River.....	Main	2,124 37

TABLE No. 135.—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1897.

G. R.	Ord.	Name of Street.	Number of Installments.	Installment of 1897.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2570	15476	Clark.....	5	1st	Paving.....	Jennings.....	Merchant.....	\$ 876 89
2306	7816	Clark.....	3	3rd	Sewer.....	Ridge.....	Lorain.....	2,603 10
2384	10323	Cloud.....	2	2nd	".....	Burton.....	Alaska.....	320 00
2315	12628	Conrad.....	3	2nd	".....	Ridge.....	Higgins.....	1,075 44
2592	16847	Carlisle.....	3	1st	".....	Burton.....	Selden.....	298 17
2364	17578	Camden.....	4	1st	".....	Lenox.....	Digelow.....	1,435 63
2361	17576	Clark.....	1	1st	".....	Isabella.....	Gilbert.....	293 85
2366	17688	China.....	3	1st	".....	Chatham.....	Siax.....	146 67
2337	17592	Clark.....	1	1st	".....	Lenox.....	Walworth.....	225 34
2362	13892	Courtland.....	1	1st	Curbing.....	Detroit.....	Franklin.....	772 00
432	13016	Cuyahoga River.....	1	1st	Dredging.....	Government Pier.....	W. line of lot 231.....	8,239 92
2434	11272	Dean Place.....	2	2nd	Sewer.....	Harvard.....	Hughes.....	639 04
2388	16555	Douse.....	3	1st	".....	550 ft. North of Broadway	N. end of Douse.....	633 27
2352	8651	Dike.....	3	3rd	Curbing.....	Quincy.....	Outhwaite.....	112 77
2716	17074	Dunham.....	5	1st	Paving.....	Wade Park avenue.....	Hough.....	2,823 14
2730	17876	Davis.....	5	1st	".....	Lorain.....	Willard.....	886 61

TABLE No. 135.—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1897.

G. R.	Ord.	Name of Street.	Number of lots assessed.	Inst. of 1897.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
1970	3664	Dexter Place.....	5	4th	Paving.....	Clinton.....	Franklin Place.....	\$ 217 14
1962	7595	Detroit.....	13	8th	".....	Old City Limits.....	L. S. & M. S. R. R.....	3,344 05
1963	7596	Detroit.....	11	7th	".....	W. L. of L. S. & M. S.....	Highland.....	2,332 00
2926	12635	Detroit.....	3	2nd	Sewer.....	Scoville Lane.....	Lowell.....	681 03
2929	12636	Detroit.....	3	2nd	".....	Lake avenue.....	Scoville Lane.....	944 96
2930	12637	Detroit.....	3	2nd	".....	Lake avenue.....	220 ft. W. of Gordon.....	1,986 65
2915	15199	Detroit.....	3	1st	".....	Eliot.....	Landon.....	2,157 33
2914	15200	Detroit.....	3	1st	".....	Eliot.....	Lowell.....	258 31
2853	13513	Duane.....	3	1st	".....	Woodbine.....	Franklin.....	473 12
2922	17175	Devine.....	4	1st	".....	Bailey.....	N. Y., C. & St. L. R. R.....	325 00
2923	17573	Desmond.....	3	1st	".....	Lake avenue.....	Boulevard.....	2,431 99
2040	4854	Euclid.....	5	4th	Paving.....	Old City Limits.....	New City Limits.....	6,752 33
2032	4977	East Madison.....	5	4th	Repaving.....	Superior.....	Hough.....	5,245 72
2614	13429	Erie Court.....	3	2nd	Paving.....	Erie.....	Brownell.....	753 01
1734	12245	East Madison.....	5	2nd	".....	Cedar.....	Woodland.....	3,942 67
2642	15068	Ensign.....	5	1st	".....	Willson.....	Kinsman.....	817 78

TABLE NO. 135.—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1897.

G. R.	Ord.	Name of Street.	Number of Install- ments.	Instal- ment of 1897.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2376	9757	East Court.....	3	2nd	Sewer.....	Kirtland.....	East End.....	236 11
2311	12424	Erie Court.....	3	2nd	"	Erie.....	Brownell.....	644 22
2268	7603	Eastdale.....	3	3rd	"	Quincy.....	N. End.....	211 22
2308	16113	East Clark.....	1	1st	Curbing.....	Petrie.....	1,670 ft. westerly.....	946 61
2324	14943 A	Erie.....	3	1st	Sewer.....	Superior.....	Woodland.....	1,532 69
2574	17774	Euclid.....	2	1st	Widening.....	Old City Limits.....	New City Limits.....	13,919 48
1668	3239	Emmet.....	5	5th	Paving.....	Marquardt.....	N. E. of Emmet.....	1,108 75
1642	3094	Elm.....	5	5th	"	Old River.....	West River... ..	3,427 94
2560	11437	Eastman.....	5	2nd	"	Detroit.....	Thornton.....	1,437 95
1806	14067	Emmet.....	5	2nd	Sewer.....	Literary.....	Jefferson.....	656 00
2121	2-204	Eagle.....	5	5th	"	Newburgh	Greenwood.....	62 55
1823	15591	Emmet.....	1	1st	"	Jefferson.....	Marquardt.....	410 67
2864	14468 A	Eliot.....	3	1st	"	Lake avenue.....	Detroit.....	573 28
2301	16623	Eglindale.....	4	1st	"	Scranton.....	East View.....	750 06
2836	15061	Eureka Lane.....	3	1st	Paving.....	Gehring.....	Columbus.....	565 77
2183	9008	Frankfort.....	4	3rd	Repaving.....	Water.....	Seneca.....	820 22

TABLE NO. 135.—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1897.

G. R.	Ord.	Name of Street.	Number of Install- ments.	Instal- ment of 1897.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
1670	3293	Fall.....	5	5th	Paving...	Center.....	British.....	2,086 85
2800	15462	Fountain.....	3	1st	"	Seneca.....	Ontario.....	654 23
2498	8563	Fraser.....	3	3rd	Sewer.....	Petrie.....	Dolloff.....	68 06
2889	16165	Koljamba.....	3	1st	"	S. L. of J. Parker's allot.....	Outhwaite.....	179 19
2899	16849	Fairview.....	3	1st	"	Murray Hill.....	South line of Lot No. 30.	481 72
2925	17443	Forest.....	3	1st	"	Kingsbury Run.....	Croton.....	292 95
1680	3256	Filmore.....	5	5th	Paving.....	Pearl.....	Empress.....	299 76
2457	V. 2 P. 191	Fiel.....	14	7th	"	Pearl.....	Rhodes.....	3,889 89
2270	9004	Franklin Place.....	5	3rd	"	Franklin.....	Fulton.....	149 40
2304	9350	Frease.....	1 3	1st 3rd	Retaining Wall.....	Bailey.....	Burton.....	1,135 76
2672	16454	Fairfield.....	5	1st	Paving.....	Jennings.....	Pelton.....	931 71
2806	16939	Fir.....	4	1st	Sewer.....	Gordon.....	Waverly.....	644 01
2827	17450	Franklin.....	3	1st	"	Watterson.....	Pease Court.....	1,399 59
2865	14526	Fountain.....	3	1st	Grading.....	Clark.....	Train.....	748 20
2807	16343	Faldawn.....	1	1st	Curbing.....	Archwood.....	Dennison.....	569 12
2861	17680	Fir.....	1	1st	"	Waverly.....	Browning.....	1,380 90

TABLE NO. 135.—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1897.

G. R.	Ord.	Name of Street.	Number of Installments.	Installments of 1897.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2941	17685	Finney.....	4	1st	Sewer	Valley	Hooker.....	\$ 617 50
2926	17446	Fen.....	3	1st	"	Quincy.....	C. & P. R. R.....	177 78
2928	17384	Francis.....	3	1st	"	Willson.....	Tod.....	1,444 44
1533	2751	Greenwood	5	4th	Paving	Sibley	Central.....	605 79
1564	3099	Giddings.....	5	5th	"	Euclid.....	Cedar.....	904 01
2224	5384	Giddings.....	5	4th	"	Cedar.....	Woodland	3,414 95
2250	11270	Giddings.....	5	2nd	"	Euclid.....	Lexington.....	5,034 52
2594	13284	Gandy Alley.....	3	2nd	"	Eagle.....	Central.....	536 35
2684	15729	Gladstone	5	1st	"	Sawtell.....	W. E. of street.....	724 98
2206	15472	Geneva (additional).....	1	1st	Sewer	Woodland	Beaver.....	143 07
2633	12658	Gay.....	5	2nd	"	Petrie.....	Weekerling.....	340 13
2348	16963	Garretson.....	3	1st	Grading and Culvert.....	Kinsman	Rawlins.....	3,853 35
2929	17076	Groton.....	3	1st	Sewer	Union.....	Astoria.....	1,581 78
2108	P. 50 V. 2	Greenwood	10	7th	Paving	Pearl.....	Melbourne.....	1,383 31
2656	15464	Gould Alley.....	3	1st	"	Pearl.....	Hicks.....	477 81
2805	12053	Gordon	3	2nd	Sewer.....	L. S. & M. S. R. R.....	Bridge.....	3,313 42

TABLE No. 135.—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1897.

G. R.	Ord.	Name of Street.	Number of Installments.	Installment of 1897.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2435	11560	Gilbert	3	2nd	Sewer	Clark.....	Storer.....	\$ 3,073 19
2391	16742	Grace.....	3	1st	"	Ridge	Gelb	1,487 49
2104	.....	Grace.....	.....	.....	Water pipe	Uncollected additions..	No. 491.....	2 38
2106	.....	Grand Army Court.....	.....	.....	" .....	Uncollected additions ..	No. 505.....	25 06
2107	.....	Greenwood .....	.....	.....	" .....	Uncollected additions ..	No. 506.....	7 99
1594	2393	Hilburn	5	5th	Paving	Euclid.....	East Prospect.....	1,542 80
1878	3556	Hough.....	5	4th	"	East Madison.....	490 feet E. of Amesbury..	5,519 90
2516	11130	Hamilton.....	5	2nd	"	Wood.....	Erie.....	3,053 93
2534	11564	Hickox.....	3	2nd	Re-paving	Euclid.....	Prospect.....	537 42
2592	13280	Harmon	5	2nd	Paving	Woodland	Central	1,781 35
2066	4847	Hough.....	5	4th	"	Willson.....	Dunham.....	1,358 63
2064	4846	Hough.....	5	4th	"	Dunham..	East Madison. .	2,463 06
2196	5249	Hasard	5	4th	"	Superior ..	Payne	618 61
2420	11456	Harrard.....	3	2nd	Sewer	Jones.....	Broadway.....	1,775 03
2613	12184	Herald.....	3	2nd	"	Kinsman ..	Trenton.....	955 36
2280	7609	Herald.....	3	3rd	"	Woodland ..	350 feet south.	197 08

TABLE NO. 135.—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1897.

G. R.	Ord.	Name of Street.	Number of Installments.	Inst. in 1897.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2307	8566	Harkness	3	3rd	Sewer	Marcy	Crawford	\$ 173 80
2336	12859	Hinde	3	2nd	"	Broadway	Tod	336 24
2278	7610	Hamilton	3	3rd	"	Wood	Erie	889 95
2384	16247	Hill	3	1st	"	Commercial	Harrison	233 34
2371	14648	Herbert	1	1st	Grading	Francis	1090 feet north	330 39
1089	11817	Highland (now Fairchild) ..	2	2nd	Widening	Fairmount	E. L. E. Holden's allot.	549 59
2355	17176	Hillman	3	1st	Sewer	Broadway	Tod	1,113 88
1652	15459	Harrison	1	1st	Paving Gutters	Hill	400 feet S. of Hill Street ..	228 17
2346	17684	Hurlbut	4	1st	Sewer	Payne	Perkins	644 18
2272	8880	Hanover	5	3rd	Paving	Detroit	Franklin Circle	1,032 88
2366	16560	Harbor	5	1st	"	Lorain	Ravine	2,768 57
2314	12827	Hope	3	2nd	Sewer	Ridge	Higgins	1,256 67
2332	12826	Horace	2	2nd	"	Green	Willett	139 73
2318	12640	Higgins	3	2nd	"	Clark	Lorain	1,383 89
2710	16365	Holmden	5	1st	Paving	Pearl	Jennings	2,930 46
1972	3860	James	5	4th	Re-paving	Merwin	S. Water	472 83

TABLE No. 135.—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1897.

G. R.	Ord.	Name of Street.	Number of Inlets.	Inlet No.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2510	12180	Czar	3	2nd	Sewer	Broadway.....	Colorado....	\$ 780 08
2845	13287	Case	3	2nd	"	Woodland	S. end of Case.....	549 22
2336	8317	Corwin.....	3	3rd	"	S. Woodland.....	Holton.....	450 39
2854	13424	Carrabelli.....	2	1st	"	S. L. of Lot No. 11.....	Mayfield.....	835 92
2910	16950	Chandler.....	3	1st	"	St. Clair.....	1,080 feet southerly.....	1,279 99
2911	16860	Chandler	4	1st	"	1,080 feet S. of St. Clair....	Dona'd	1,171 41
2921	17177	Cornelia	4	1st	"	Hodge	Woolsey .	669 08
2391	9185	Canal.....	3	2nd	Grading.....	Factory	Commercial.....	1,285 17
2863	14 06	Crosby.....	1	1st	Grading and Culvert..	Worley	Canton.....	707 50
432	17589	Cuyahoga River.....	1	1st	Dredging	Government Pier.....	N. line of orig. lot No. 281	5,010 68
2696	16336	Cemetery.....	6	1st	Paving.....	Quincy.....	Woodland	918 61
2223	5386	Cedar.....	5	4th	"	Fairmount.....	Doan Brook	1,083 41
2718	17586	Court Place.....	3	1st	Repaving.....	St. Clair	Brown Alley.....	179 32
1590	3338	Columbus	5	5th	Paving.....	Lorain	Brevier.....	2,796 15
2620	13516	Clark.....	5	2nd	"	Pearl	Jennings	2,962 03
2552	12399	Center	5	2nd	Repaving.....	Cuyahoga River	Main	2,124 37

TABLE No. 135.—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1897.

G. R.	Ord.	Name of Street.	Number of Assessments.	Installment of 1897.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2380	16813	Kent.....	3	1st	Paving.....	St. Clair.....	Lake.....	1,776 65
2423	11833	Kidder.....	2	2nd	Sewer.....	Swiss.....	Hamburg.....	113 50
2417	1213	Kinkel.....	3	2nd	".....	Pearl.....	Scranton.....	522 22
2720	17587	Kenilworth.....	5	1st	Paving.....	Jennings.....	Pelton.....	1,200 24
2316	8385	Lindus.....	5	3rd	".....	Superior.....	Wade Park Avenue.....	1,125 83
2558	15840	Lorington.....	5	2nd	".....	Willson.....	East Madison.....	5,069 81
2606	13210	La Grange.....	5	2nd	".....	East Madison.....	Ingleside.....	732 92
2314	8396	Lamont.....	5	3rd	".....	Republic.....	1016 feet W. of Republic..	873 69
2690	16337	Lane.....	5	1st	".....	Commercial.....	Canal.....	484 00
2618	11824	Laverne.....	5	2nd	".....	Archwood.....	Bradwell.....	1,507 71
2676	15485	Literary.....	5	1st	".....	Herschel.....	Merchant.....	2,271 77
2816	13213	Literary.....	3	2nd	Sewer.....	Merchant.....	Pelton.....	244 08
2827	12638	Lake.....	3	2nd	".....	Detroit.....	L. S. & M. S. R. R.....	2,293 72
2308	13294	Laverne.....	2	2nd	".....	Bradwell.....	High View Avenue.....	391 80
2902	16553	Libbie.....	3	1st	".....	Clark.....	Brinsmade.....	903 07
2931	17674	Lenox.....	4	1st	".....	Clark.....	South End.....	606 62

TABLE No 135.—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1897.

G. R.	Ord.	Name of Street.	Number of Installments	Installment of 1897.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2632	15063	Lincoln.....	5	1st	Paving.....	Quincy.....	Woodland.....	2,314 84
2804	11561	Lane.....	3	2nd	Sewer.....	Commercial.....	Canal.....	336 67
2412	10998	Lusenden.....	2	2nd	".....	Central.....	N. end of street.....	193 89
2801	12182	Lusenden.....	3	2nd	".....	Quincy.....	Central.....	916 33
2804	16733	Linton.....	1	1st	Grading.....	Ackley.....	844 feet westerly.....	620 01
2016	3508	Marwin.....	5	4th	Repaving..	Center.....	1610 feet southerly ..	2,573 64
2492	8300	Marcy.....	5	3rd	Paving.....	Wade Park.....	Lough.....	2,356 95
2612	11565	Monumental Court.....	5	2nd	Repaving ..	Superior.....	Euclid.....	543 15
2536	11436	Murray Hill.....	5	2nd	Paving.....	Adelbert.....	Mayfield.....	4,700 07
2538	11816	Mayfield.....	5	2nd	".....	Knox.....	Fairview.....	3,567 06
1656	3294	Merwin.....	5	5th	".....	Superior.....	Center.....	1,744 66
2638	15080	Minerva.....	5	1st	".....	Hough.....	N. end of Milwaukee.....	778 94
2696	16336	Main.....	5	1st	Repaving.....	East River Street.....	Water.....	780 66
2262	7569 15471	Montrose.....	1 3	3rd	Sewer.....	Wade Park Avenue.....	South end.....	346 15
2220	15470	Murray Hill.....	1	1st	".....	Mayfield.....	Cornell.....	933 91
2261	7601	Mather.....	3	3rd	".....	Ansel.....	Wade Park Avenue.....	590 60

TABLE NO. 135.—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1897.

G. R.	Ord.	Name of Street.	Number of Installments.	Installment of 1897.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2814	18263	Monumental Court.....	2	2nd	Sewer.....	Ontario.....	Euclid.....	\$ 327 85
2417	11133	Mason Lane.....	3	2nd	".....	Case.....	Kinder.....	185 99
2507	8114	McCurdy.....	3	3rd	".....	Woodland.....	Holton.....	405 53
2803	12046	Medina.....	3	2nd	".....	Woolsey ..	Ansel.....	1,210 41
2806	12047	Malden.....	3	2nd	".....	St. Clair.....	Donald.....	3,186 00
2062	3527	Marcelline.....	5	4th	".....	Broadway ..	Harvard.....	2,412 39
2838	8304	Martin.....	3	3rd	".....	Broadway ..	N. Y. P. & O. R. R.	434 75
2942	14941	Muirson	3	1st	".....	Lake Erie.....	Superior.....	838 54
2958	17686	Miles Park.....	3	1st	".....	Broadway ..	Sawyer.....	392 66
2959	17687	Miles Park.....	3	1st	".....	Sawyer	Woodland Hills.....	556 66
2443	17582	Muirson	3	1st	".....	Superior.....	Walnut.....	40 22
2034	4830	Main.....	5	4th	Repaving.....	Cuyahoga River.....	117 feet S. from W. Center	1,978 41
2664	15460	McLean	5	1st	Paving.....	Lorain	Monroe.....	1,439 49
2658	15461	Monroe.....	5	1st	".....	Pearl.....	Willett.....	2,731 18
2309	7815	Myrtle.....	3	3rd	Sewer.....	Cook ..	Buckley	239 80
2903	16853	Malcolm.....	3	1st	".....	Detroit.....	W. Madison.....	1,106 51

TABLE No. 135.—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1897.

G. R.	Ord.	Name of Street.	Number of Install- ments.	Instal- ment of 1897.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
1670	3293	Fall,.....	5	5th	Paving.....	Center.....	British.....	2,066 85
2600	15462	Fountain	3	1st	"	Seneca.....	Ontario.....	654 23
2498	8563	Frasee.....	3	3rd	Sewer.....	Petrie.....	Dolloff....	68 06
2889	16465	Foljanbe.....	3	1st	"	S. L. of J. Parker's allot..	Outhwaite.....	179 19
2899	16849	Fairview.....	3	1st	"	Murray Hill.....	South line of Lot No. 39...	481 72
2925	17443 A	Forest.....	3	1st	"	Kingsbury Run.....	Croton.....	292 95
1680	3298	Filmore.....	5	5th	Paving.....	Pearl.....	Empress.....	299 76
2457	V. 2 P. 191	Fish.....	14	7th	"	Pearl.....	Rhodes.....	3,889 39
2270	9004	Franklin Place.....	5	3rd	"	Franklin.....	Fulton.....	149 40
2304	9350	Frease.....	1	1st	Retaining Wall.....	Bailey.....	Burton	1,135 76
2672	15454	Fairfield.....	3	3rd	Paving.....	Jennings.....	Pelton.....	931 71
2896	16959	Fir.....	4	1st	Sewer.....	Gordon	Waverly.....	644 01
2927	17450	Franklin.....	3	1st	"	Watterson	Pease Court	1,399 59
2865	14526	Fountain.....	3	1st	Grading	Clark.....	Train.....	748 20
2907	16343	Fairlawn ,.....	1	1st	Curbing.....	Archwood	Dennison.....	569 12
2961	17680	Fir.....	1	1st	"	Waverly	Browning.....	1,380 99

TABLE NO. 135.—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1897.

G. R.	Ord.	Name of Street.	Number of Installments.	Installment of 1897.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2841	17685	Finney.....	4	1st	Sewer.....	Valley.....	Hooker.....	\$ 617 50
2926	17445	Fen.....	3	1st	".....	Quincy.....	C. & P. R. R.....	177 78
2928	17584	Francis.....	3	1st	".....	Willson.....	Tod.....	1,444 44
1532	2751	Greenwood.....	5	4th	Paving.....	Sibley.....	Central.....	605 79
1564	3099	Giddings.....	5	5th	".....	Euclid.....	Cedar.....	904 01
2224	5384	Giddings.....	5	4th	".....	Cedar.....	Woodland.....	3,414 95
2280	11270	Giddings.....	5	2nd	".....	Euclid.....	Lexington.....	5,034 52
2594	13284	Gandry Alley.....	3	2nd	".....	Eagle.....	Central.....	536 35
2684	15729	Gladstone.....	5	1st	".....	Sawtell.....	W. E. of street.....	724 98
2206	15472	Geneva (additional).....	1	1st	Sewer.....	Woodland.....	Beaver.....	143 07
2833	12858	Guy.....	5	2nd	".....	Petrie.....	Wackerling.....	840 13
2348	16963	Garretson.....	3	1st	Grading and Culvert.....	Kinsman.....	Rawlings.....	3,853 35
2929	17076	Groton.....	3	1st	Sewer.....	Union.....	Ains.....	1,581 78
2108	P 50 V 2	Greenwood.....	10	7th	Paving.....	Pearl.....	Melbourne.....	1,383 31
2856	15464	Gould Alley.....	3	1st	".....	Pearl.....	Hicks.....	477 81
2805	12053	Gordon.....	3	2nd	Sewer.....	L. S. & M. S. R. R.....	Bridge.....	3,313 42

TABLE No. 135.—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1897.

G. R.	Ord.	Name of Street.	Number of Installments.	Instalment of 1897.	Kind of Improvement.	LIMITS.		Amount.
						From .	To	
2435	11560	Gilbert	3	2nd	Sewer	Clark.....	Storer.....	\$ 3,073 19
2891	16742	Grace.....	3	1st	"	Ridge	Geib.....	1,487 49
2104	.....	Grace.....	.....	.....	Water pipe	Uncollected additions....	No. 491.....	2 38
2106	.....	Grand Army Court.....	.....	.....	" .....	Uncollected additions....	No. 505.....	25 06
2107	.....	Greenwood.....	.....	.....	" .....	Uncollected additions....	No. 506.....	7 99
1594	2893	Hilburn	5	5th	Paving	Euclid	East Prospect.....	1,542 80
1878	3656	Hough.....	5	4th	"	East Madison.....	490 feet E. of Amesbury..	5,519 90
2516	11130	Hamilton.....	5	2nd	"	Wood.....	Erie.....	3,053 93
2534	11564	Hickox.....	3	2nd	Re-paving	Euclid.....	Prospect.....	537 42
2592	13280	Harmon	5	2nd	Paving	Woodland	Central	1,781 35
2056	4847	Hough.....	5	4th	"	Willson.....	Dunham.....	1,356 63
2064	4846	Hough.....	5	4th	"	Dunham..	East Madison.	2,463 08
2198	5249	Hazard	5	4th	"	Superior	Payne	618 61
2420	11456	Harvard	3	2nd	Sewer	Jones.....	Broadway.....	1,775 03
2813	12184	Herald.....	3	2nd	"	Kinsman.....	Trenton.....	955 36
2280	7609	Herald.....	3	3rd	"	Woodland	350 feet south.	197 68

TABLE NO. 135.—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1897.

G. R.	Ord.	Name of Street.	Number of Install- ments.	Instal- ment of 1897.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2307	8565	Harkness	3	3rd	Sewer	Marcy	Crawford	\$ 173 80
2336	12859	Hinde	3	2nd	"	Broadway	Tod	355 24
2278	7610	Hamilton	3	3rd	"	Wood	Erie	889 95
2384	16247	Hill	3	1st	"	Commercial	Harrison	233 34
2371	14648	Herbert	1	1st	Grading	Francis	1000 feet north	330 39
1089	11817	Highland (now Fairchild) ..	2	2nd	Widening	Fairmount	E. L. E. Holden's allot.	549 59
2355	17176	Hillman	3	1st	Sewer	Broadway	Tod	1,113 88
1632	15459	Harrison	1	1st	Paving Gutters	Hill	400 feet S. of Hill Street ..	228 17
2346	17694	Hurlbut	4	1st	Sewer	Payne	Perkins	644 18
2272	8880	Hanover	5	3rd	Paving	Detroit	Franklin Circle	1,032 88
2386	16560	Harbor	5	1st	"	Lorain	Ravine	2,768 57
2314	12827	Hope	3	2nd	Sewer	Ridge	Higgins	1,256 67
2332	12828	Horace	2	2nd	"	Green	Willett	139 73
2318	12840	Higgins	3	2nd	"	Clark	Lorain	1,383 89
2710	16965	Holmden	5	1st	Paving	Pearl	Jennings	2,930 46
1972	3660	James	5	4th	Re-paving	Mervin	S. Water	472 83

TABLE No. 135.—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1897.

G. R.	Ord.	Name of Street.	No. of Lots Included	Dist. to be Improved	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2247	8565	Jerome Alley.....	3	3rd	Sewer	Jasper.....	Cross	\$ 162 80
2502	8182	Julia.....	3	3rd	"	Willson	Sawtell	396 10
2249	14027	Judson.....	1	1st	Curbing.....	Quincy.....	Stanton	479 32
2330	17449	Judd.....	3	1st	Sewer	Perry	Harmon	138 10
2600	15456	Jersey	5	1st	Paving	Fulton.....	Monroe.....	2,091 53
2506	8119	Jay	3	3rd	Sewer	Pearl.....	Jersey	1,058 33
2912	16938	Jefferson	4	1st	"	Tremont.....	Professor.....	144 50
2913	16937	Jefferson	4	1st	"	Pelton	Tremont.....	192 08
2832	17370	Junction.....	3	1st	"	Walworth	Train	243 66
2520	10318	Knox	5	2nd	Paving	Cornell	Mayfield.....	626 62
2684	12869	Kent Alley.....	3	2nd	"	Wood.....	Kent.....	354 31
2496	11832	Kenmore	3	2nd	Sewer	Marcy	Crawford.....	940 00
2832	16246	Korman	3	1st	"	Woolsey	Ansel.....	1,261 21
2668	13893	Kinderwater.....	1	1st	Curbing.....	Willson.....	Lyon.....	980 72
2667	13707	Kirtland.....	1	1st	"	Superior.....	Bl. Clair.....	991 43
2667	14306	Kimmel.....	3	1st	Grading	Beding	Hunting	1,663 90

TABLE NO. 135.—Continued.

LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1897.

G. R.	Ord.	Name of Street.	Number of Installments.	Installment of 1897.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2580	16843	Kent.....	3	1st	Paving.....	St. Clair.....	Lake.....	1,776 65
2423	11833	Kidder.....	2	2nd	Sewer.....	Swiss.....	Hamburg.....	113 50
2317	1213	Kinkel.....	3	2nd	".....	Pearl.....	Scranton.....	522 22
2720	17537	Kenilworth.....	5	1st	Paving.....	Jennings.....	Pelton.....	1,200 24
2316	8385	Lindus.....	5	3rd	".....	Superior.....	Wade Park Avenue.....	1,125 83
2538	15840	Lexington.....	5	2nd	".....	Willson.....	East Madison.....	5,069 81
2608	13210	La Grange.....	5	2nd	".....	East Madison.....	Ingleside.....	732 92
2314	8396	Lamont.....	5	3rd	".....	Republic.....	1016 feet W. of Republic.....	873 69
2690	16337	Lane.....	5	1st	".....	Commercial.....	Canal.....	494 00
2619	11824	Luverne.....	5	2nd	".....	Archwood.....	Bradwell.....	1,507 71
2676	15465	Literary.....	5	1st	".....	Herschel.....	Merchant.....	2,271 77
2816	13213	Literary.....	3	2nd	Sewer.....	Merchant.....	Pelton.....	244 08
2827	12638	Lake.....	3	2nd	".....	Detroit.....	L. S. & M. S. R. R.....	2,293 72
2308	13288	Luverne.....	2	2nd	".....	Bradwell.....	High View Avenue.....	391 80
2902	16553	Libbie.....	3	1st	".....	Clark.....	Brinsmade.....	803 07
2931	17674	Lenox.....	4	1st	".....	Clark.....	South End.....	606 62

TABLE No 135.—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1897.

G. R.	Ord.	Name of Street.	Number of Install- ments.	Instal- ment of 1897.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2632	15063	Lincoln.....	5	1st	Paving.....	Quincy.....	Woodland	2,314 84
2804	11561	Lane	3	2nd	Sewer.....	Commercial.....	Canal.....	336 67
2412	10998	Lussenden.....	2	2nd	"	Central	N. end of street.....	138 89
2801	12182	Lussenden	3	2nd	"	Quincy.....	Central.....	916 33
2904	16733	Linton.....	1	1st	Grading.....	Ackley.....	844 feet westerly.....	620 01
2016	3508	Merwin.....	5	4th	Repaving.....	Center	1610 feet southerly	2,573 64
2492	8300	Marcy	5	3rd	Paving.....	Wade Park.....	Hough	2,355 95
2512	11565	Monumental Court.....	5	2nd	Repaving.....	Superior.....	Euclid.....	543 15
2526	11436	Murray Hill.....	5	2nd	Paving.....	Adelbert.....	Mayfield.....	4,760 07
2538	11818	Mayfield	5	2nd	"	Knox.....	Fairview.....	3,587 06
1656	3294	Morwin.....	5	5th	"	Superior.....	Center	1,744 66
2638	15060	Minerva	5	1st	"	Hough.....	N. end of Minerva.....	778 94
2698	16335	Main	5	1st	Repaving.....	East River Street.....	Water	780 66
2282	7599 15471	Montrose	1 3	3rd	Sewer.....	Wade Park Avenue.....	South end.....	346 15
2220	15470	Murray Hill.....	1	1st	"	Mayfield.....	Cornell.....	933 91
2281	7601	Mather.....	3	3rd	"	Ansel.....	Wade Park Avenue.....	590 50

TABLE NO. 135.—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1897.

G. R.	Ord.	Name of Street.	Number of Lots Beneficially Improved.	Inst. of 1897.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2844	13285	Monumental Court.....	2	2nd	Sewer.....	Ontario.....	Euclid.....	\$ 327 85
2417	11183	Mason Lane.....	3	2nd	"	Case.....	Kinder.....	185 99
2507	8114	McCurdy.....	3	3rd	"	Woodland.....	Holton.....	405 53
2803	12046	Medina.....	3	2nd	"	Woolsey ..	Ansel.....	1,210 41
2806	12047	Malden.....	3	2nd	"	St. Clair.....	Donald.....	3,186 00
2062	3527	Marcelline.....	5	4th	"	Broadway ..	Harvard.....	2,412 39
2338	8304	Martin.....	3	3rd	"	Broadway ..	N. Y. P. & O. R. R.	434 75
2942	14941	Muirson.....	3	1st	"	Lake Erie.....	Superior.....	838 54
2353	17686	Miles Park.....	3	1st	"	Broadway.....	Sawyer.....	392 66
2959	17687	Miles Park.....	3	1st	"	Sawyer.....	Woodland Hills.....	556 66
2-43	17582	Muirson.....	3	1st	"	Superior.....	Walnut.....	40 22
2034	4630	Main.....	5	4th	Repaving.....	Cuyahoga River.....	117 feet S. from W. Center	1,978 41
2654	15460	McLean.....	5	1st	Paving.....	Lorain.....	Monroe.....	1,439 49
2538	15461	Monroe.....	5	1st	"	Pearl.....	Willett.....	2,731 18
2379	7315	Myrtle.....	3	3rd	Sewer.....	Cook ..	Buckley.....	239 90
2903	16953	Malcolm.....	3	1st	"	Detroit.....	W. Madison.....	1,105 51

TABLE No. 135.—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1897.

G. R.	Ord.	Name of Street.	Number of Lots.	Kind of Improvement.	LIMITS.		Amount.
					From	To	
2370	11455	Nevada...	3	Sewer.....	Bolton.....	Oakdale.....	\$ 328 07
2459	V. 2 P 128-45	Newburgh.....	10	Paving.....	Pearl.....	Melbourne.....	1,241 33
2734	V. 2 P. 287	Newburgh.....	10	".....	Pearl.....	E. L. of Foster.....	2,256 24
2819	12829	Neville.....	3	Sewer.....	Ridge.....	W. E. of Neville.....	782 16
2161	2-256	Newburgh..	5	".....	Pearl.....	Cayaboga.....	2,501 68
2890	16946	Newark	3	".....	Selden.....	Burton	300 00
1562	3065	Osborn.....	5	Paving.....	Scovill.....	Woodland.....	913 22
2174	4672 5250	Olive	5	".....	Hough.....	Euclid.....	945 88
2518	12179	Ontario.....	5	Repaving.....	Lake Street.....	Summit	577 00
2576	12397	Odell Alley.....	5	Paving.....	Orange.....	Cherry Alley.....	210 25
2637	12870	Osborn.....	8	Sewer.....	Central.....	Scovill.....	1,371 30
2678	16683	Oliver.....	8	".....	Superior.....	Euclid.....	1,969 02
2834	15062	O. born.....	5	Paving.....	Central.....	Scovill.....	1,356 56
2712	17,73	Ontario.....	5	Repaving.....	Factory.....	Central.....	902 76
2724	17776	Oliver.....	5	Paving.....	Euclid.....	Superior.....	3,333 65
2947	17689	Oakdale	3	Sewer.....	Quincy	Woodland.....	1,655 40

TABLE NO. 135.—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1897.

G. R.	Ord.	Name of Street.	Number of Install- ments.	Instal- ment of 1897.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2853	17448	Ottawa.....	3	1st	Sewer.....	Marcelline.....	Jones.....	\$ 1,587 16
1976	3661	Park Place.....	5	4th	Paving.....	St. Clair.....	Rockwell.....	688 58
2482	8296	Platt.....	5	3rd	".....	East Madison.....	C. & P. R. R.....	1,624 83
2274	11435	Princeton.....	5	2nd	".....	Euclid.....	Hough.....	3,653 38
2838	12661	Prosser.....	3	2nd	Sewer.....	Willson.....	Lyon.....	746 67
2700	16334	Plymouth.....	5	1st	Paving.....	Cedar.....	Central.....	1,570 64
2840	15059	Putnam.....	5	1st	".....	Seovill.....	Central.....	1,497 42
2960	17694	Pratt.....	4	1st	Sewer.....	Woodland Hills.....	East end.....	734 62
2283	7600	Pennsylvania.....	3	3rd	".....	Dunham.....	Rustell.....	346 67
1758	3339	Pearl.....	5	5th	Repaving.....	Walworth Run Bridge.....	Sackett.....	7,253 36
2070	8302	Pearl.....	5	3rd	".....	Vermont.....	Detroit.....	242 96
2662	15437	Penn.....	5	1st	Paving.....	Bridge.....	Monroe.....	2,246 35
2306	8118	Pearl.....	3	3rd	Sewer.....	Brevier.....	Franklin.....	2,993 33
2948	17690	Pleasant.....	4	1st	".....	Clark.....	1,150 feet South.....	1,002 86
2812	12423	Quebec.....	3	2nd	".....	Oakdale.....	Doan.....	1,721 07
1658	4856	Quincy.....	5	4th	Paving.....	Willson.....	E. L. of Giddings.....	4,513 39

TABLE NO. 135.—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1897.

G. R.	Ord.	Name of Street.	Number of Install- ments.	Instal- ment of 1897.	Kind of Improvement.	LIMITS.		Amount.
						* From	To	
1660	4855	Quincy.....	5	4th	Paving	Giddings.....	Bolton.....	\$ 6,316 62
1466	15449	Rockwell	1	1st	"	Wood.....	Erie	927 96
2439	12181	Rawlins	3	2nd	Sewers.	East Madison.....	C & P. R. R.....	1,403 82
2488	12183	Remington.....	3	2nd	"	Congress.....	Bolton.....	505 00
2411	11000	Ruggles	3	2nd	"	Miles	Pratt.. ..	488 34
2825	12362	Rockert	3	2nd	"	Petrie.....	Dolloff..	404 22
2431	11831	Rockford.....	2	2nd	"	Superior.....	N. E. of Rockford	396 83
2375	9447	Rutland	3	2nd	"	Kinsman.....	750 feet South.....	565 04
2310	7907	Race	3	3rd	"	Ontario	420 feet South.....	150 00
2706	16736	Republic.....	5	1st	Paving.....	Euclid	Lamont.....	2,425 16
2690	15728	Race.....	5	1st	"	Ontario.	393 feet Westerly.....	407 56
1978	9667	Randall.....	5	4th	"	Lorain.....	Bridge.....	368 88
2694	16338	Ridge	5	1st	Repaving	Lorain.....	Dennison	6,579 61
2616	12630	Rhodes.....	3	2nd	Sewer	Clark.....	750 feet Southerly.....	766 66
2284	7606	Ricky	3	3rd	"	Dennison.	452 feet South.....	33 96
2170	V. J P. 412	Rhodes.....	10	9th	"	Woodbridge.....	S. L. of Lot 55.....	439 86

TABLE No. 135.—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1897.

G. R.	Ord.	Name of Street.	Number of Installments.	Inst. in 1897.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
1150	200	Rhodes and Woodbridge..	10	9th	Sewer.....	Original Lot 55.....	Woodbridge.....	\$ 64 72
2332	17178	Robert	3	1st	"	Burton	Selden	311 41
2170		Rhodes.....	1	1st	"	Uncollected Additions ..	N.s. 430, 431, 477.....	20 70
2346	15037	Spangler	5	1st	Paving.....	Hough.....	680 feet Southw.	715 78
2350	15444	Seneca.....	5	1st	Repaving	Superior	St. Clair	1,568 47
2366	13208	Sumner.....	5	2nd	Paving	Erie	Brownell.....	400 79
2348	13209	Soelya.....	5	2nd	"	Woodland	Julia.....	1,813 87
2912	5182	St. Clair.....	5	4th	Repaving.....	Water	Erie.....	5,296 55
1982	3366	Sheriff.....	5	4th	"	Bolivar	Eagle.....	407 59
1980	3553	Second.....	5	4th	Paving.....	Cedar.....	Central.....	1,395 06
1984	2097	Sibley.....	5	4th	"	Perry.....	Hayward	2,368 04
1764	3343	Sixth.....	5	5th	"	Willson.....	Norwood.....	1,176 19
2046	4831	Sterling.....	5	4th	"	Hamilton.....	Euclid.....	6,251 24
1766	3369	St. Clair.....	5	5th	"	Willson.....	Becker.....	7,337 42
1574	4845	South Water.....	5	4th	Repaving.....	West.. ..	Superior.....	1,176 36
1884	3657	Superior.....	5	4th	Paving.....	Willson.....	E. L. of Ansel.....	15,362 66

TABLE NO. 135.—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1897.

G. R.	Ord.	Name of Street.	Number of Lots.	Instalment of 1897.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2809	12048	Sowinski.....	3	2nd	Sewer.....	Woolsey.....	Ansel.....	\$ 1,250 52
2826	12864	Schaefer.....	3	2nd	".....	East Madison.....	Becker.....	661 49
2839	12863	Stanard.....	3	2nd	".....	Brunswick.....	Willson.....	644 54
2285	104 8 16244	Shelburne.....	1	1st	".....	Quincy.....	North End.....	671 23
2894	16861	Eveboda.....	4	1st	".....	Forest.....	East End.....	587 67
2909	17179	Stoneman.....	4	1st	".....	Kinsman.....	1,050 feet South.....	887 81
2934	17180	Simon.....	5	1st	".....	Woolsey.....	Ansel.....	615 32
2906	16735	Sherwood.....	1	1st	Grading.....	Ambler.....	McCurdy.....	980 00
2726	17875	Streator.....	5	1st	Paving.....	Quebec.....	Cedar.....	2,735 20
2833	14942 A	Superior.....	3	1st	Sewer.....	Erle.....	Muirson.....	222 33
696	17878	Sidewalks.....	.....	.....	Delinquent.....	E. of R.....	.....	4,785 52
1314	17877	Sewer & water connect'ns	1	1st	.....	E. of R.....	.....	574 59
2738	18004	Sherman.....	3	1st	Opening.....	E. L. of To'n & G'm's al't.	E. Madison.....	989 11
1314	.....	Sewer & water connect'ns.	1	1st	Uncollected.....	Addition No. 501.....	.....	56 22
2182	4975 10317	Seneca.....	6	4th	Repaving.....	Upper Seneca St. Bridge..	Jefferson.....	3,708 28
2530	12886	State.....	5	2nd	Paving.....	Franklin.....	Washington.....	1,212 24

TABLE NO. 135.—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1897.

G. R.	Ord.	Name of Street.	Number of Installments.	Insts. levied in 1897.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2826	14401	Seranton.....	5	1st	Paving.....	Clark.....	Pearl.....	\$ 12,488 05
2822	12839	Seoville Lane.....	3	2nd	Sewer.....	Lake Avenue.....	Detroit.....	459 16
2311	7821	Seranton.....	3	3rd	"	Pearl.....	100 ft. North of Alken Av.	773 65
2853	13512	State.....	3	1st	"	Washington.....	Detroit.....	156 45
2897	16863	Shaw.....	3	1st	"	Ridge.....	Easterly End.....	332 71
2898	16864	Seranton.....	5	1st	Repaving.....	Seneca.....	Paraffine.....	4,369 69
696	17878	Sidewalks.....			Delinquent.....	W. of R.....		5,142 25
1314	17877	Sewer & water connect'ns.	1	1st	W. of R.....			67 48
2044	5183	Tilden.....	5	4th	Paving.....	Crawford.....	Euclid.....	1,472 89
2335	8305	Track.....	3	2nd	Sewer.....	Mead.....	Willson.....	721 77
2843	12866	Tod.....	5	2nd	"	Halsey.....	Fleet.....	725 62
2847	13286	Tod.....	3	2nd	"	Fleet.....	Fullerton.....	130 13
2342	14758	Tod.....	1	1st	Grading.....	60 ft. N. of Halsey Street.	Fremont.....	198 84
2836	17583	Tod.....	3	1st	Sewer.....	Francis.....	Union.....	6,362 14
2820	12631	Tremont.....	3	2nd	"	Pelton.....	Starkweather.....	1,107 61
2166	2-273	Terrace.....	5	4th	"	Pearl.....	Park Place.....	190 46

TABLE No. 135.—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1897.

G. R.	Ord.	Name of Street.	Number of Installments.	Installment of 1897.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2881	16005	Titus	3	1st	Sewer.....	Soranton	East View.....	\$ 547 30
2898	16739	Tennessee ..	3	1st	"	L. S. & M. S. R. R.....	Lake Avenue.....	1,654 58
2944	17571	Train	3	1st	"	Burton	Junction	1,962 29
2945	17572	Train	3	1st	"	Junction.....	100 feet W. of Swiss.....	490 67
2935	17446	Thurman.....	3	1st	"	Literary.....	College.....	344 66
2506	8115	Union	3	3rd	"	Woodland Hills.....	Broadway.....	7,854 57
2568	13206	Vine.....	5	2nd	Paving.....	Soovill	Woodland	1,375 36
2008	13430	Van Buren.....	5	2nd	"	Central.....	Quincy.....	1,166 66
2949	17683	Valley	6	1st	Sewer.....	Harvard.....	Finney.....	477 40
2610	13432	Woodland Court.....	5	2nd	Paving	Woodland	S. end Woodland Court...	904 98
2570	13207	Webster	5	2nd	"	Erie	Brownell	1,488 98
2564	11686	Woodland	5	2nd	Repaving.....	Eagle.....	Central	1,198 57
2262	8299	Windsor	5	3rd	Paving.....	Case	Wilton	1,774 73
2190	5353	Water	5	4th	Repaving.....	N. L. of St. Clair.....	N. curb of Front Street...	2,378 01
2058	4852	Water.....	5	4th	"	Superior.....	N. L. of St. Clair.....	1,832 20
1770	3366	Woodland Hills.....	5	5th	Paving.....	Fairmount.....	S. L. of Norman.....	1,572 77

TABLE NO. 135.—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1897.

G. R.	Ord.	Name of Street.	Number of Installments.	Instalment of 1897.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2296	7726	Woodland Hills Addition	1	1st	Gutter Paving	Elwell	South Woodland	\$ 80 31
2297	7802	Watkins	3	3rd	Sewer	Cedar	E. Prospect	101 06
2344	8564	Willson	3	3rd	"	Broadway	N. Y., P. & O. R. R.	563 90
2802	12060	Willson	3	2nd	"	Track	Kingsbury Run	3,273 84
1873	3309	Woolsey	5	5th	"	St. Clair	Superior	1,960 97
2343	8667	Wilmar	3	3rd	"	Superior	Whiting	113 10
2424	11451	Wabash	3	2nd	"	Kinsman	Trenton	690 06
2856	13514	Walnut	3	1st	"	Muirson	Erie	643 11
2378	13518	Warner Road	3	2nd	Grading and Culvert	Broadway	Grand Division	7,250 31
2887	17444	Woodland	3	1st	Sewer	Eagle	Cross	690 89
2524	16737	Wood	5	1st	Paving	St. Clair	Summit	1,918 81
2704	16738	Wade Park Avenue	5	1st	"	Norwood	Annaple	8,368 63
2823	14400	Waring	5	1st	"	Payne	Perkins	922 44
2938	17442	Woodland	3	1st	Sewer	Erie	Maple	2,317 33
2939	17452	Woodland	3	1st	"	Maple	Case	1,419 81
2940	17451	Woodland	3	1st	"	Case	Willson	1,187 99

TABLE No. 135.—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1897.

G. R.	Ord.	Name of Street.	Number of Installments.	Installment of 1897.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2702	16383	Willson	5	1st	Paving	Bowen	Broadway	\$ 10,765 95
1768	3302	Wason	5	5th	"	St. Clair	L. S. & M. S. R. R.	2,980 28
1770	3366	Woodland Hills	5.	5th	"	Uncollected addition	No. 411	13 78
2223	4848	Willson	1	1st	Sewer	Uncollected addition	Nos. 545, 546	273 82
2616	13515	Waverly	5	2nd	Paving	Detroit	Lorain	3,389 29
2612	12175	Ward	5	2nd	"	Lorain	Monroe	1,321 61
2614	15458	Woodbridge	5	1st	"	Pearl	Rhodes	4,006 61
2428	11452	Wenham	3	2nd	Sewer	Clark	Brinsmade	709 68
2240	13987	Walworth	3	1st	"	Gordon	585 feet N. E. of Willey ..	1,925 59
2886	16654	Watterson	3	1st	"	Detroit	W. Madison	1,373 45
2875	13710	Walton	1	1st	Curbing	Pearl	Pollock	2,622 46
2886	16115	Wade	1	1st	"	Pearl	Rhodes	1,906 83
2905	16734	West Clinton	1	1st	"	Watterson	753 feet east	649 54
2736	18003	West Clinton	5	1st	Paving	Gordon	Waverly	1,383 81
498	1569	Walworth	10	8th	Opening	Seranton	Gordon	17,793 04
2288	7004	Yeakel	3	3rd	Sewer	Oakdale	Woodland Hills	833 60

TABLE NO. 135.—Concluded.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1897.

G. R.	Ord.	Name of Street.	Number of Installments.	Installation of 1897.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2822	13517	York.....	3	2nd	Paving.....	Franklin Place & Carroll.	To Bridge, to Monroe.....	\$ 2,813 99
2821	12634	York.....	3	2nd	Sewer.....	Lorain.....	Carroll.....	48 50
2422	11453	Young.....	3	2nd	"	Clark.....	Brinsmade.....	724 95
2833	16006	Zoeter.....	1	1st	Curbing.....	Dunham.....	Giddings.....	1,480 62
		Total.....						\$ 619,692 54

PART VI.

THE SEWER DISTRICTS.

TABLE NO. 136.

Report on Sewer Districts in City of Cleveland, Ohio.

Authority for the creation of a system of sewerage and the establishment of sewer districts may be found in the Revised Statutes of Ohio, as follows :

SECTION 2366. When it becomes necessary in the opinion of the council of a city or village to provide a system of sewerage and drainage for such municipal corporation, or any part thereof, it shall be the duty of the board of improvements to devise and form, or cause to be formed, a plan of sewerage and drainage for the whole city or village, or such part thereof as may be designated by the council.

SEC. 2370. The plan so devised shall, in the discretion of the council, be formed with the view of the division of the corporation into as many sewer districts as may be deemed necessary for securing sufficient drainage and sewerage; each of the districts shall be designated by name and number, and consist of one or more main or principal sewers, with the necessary branches and connections, the main or principal sewers having their outlet in a river or other proper place; and the districts shall be so arranged as to be independent of each other so far as practicable.

SEC. 2379. The council shall provide for assessing the cost and expense of constructing main sewers, upon the lots and lands bounding and abutting upon the streets, lanes, alleys, highways, market spaces, public landings and commons, in or along which the same shall pass, by the feet front, or according to the valuation of the same on the tax list, or according to benefits as it shall determine.

SEC. 2384. In no case shall the assessment exceed the sum of two dollars per foot front on the property assessed; and the excess shall be paid out of the sewer fund of the corporation.

TABLE NO. 136.—Continued.

Sewer District No. 1.

Established by ordinance passed May 22, 1860, and amended as at present defined September 22, 1874.

Main Sewer.

CASE AVENUE, from Woodland avenue to Lake Erie.

No sewer bonds outstanding December 31, 1897.

Valuation, 1896, \$7,558,370.00.

Estimate for tax levy of 1897, made June 1, 1897:

Cash on hand.....	\$ 9,909 45	
1896 tax	7,500 00	
	<hr/>	\$17,409 45
Pay 1897 repairs.....	\$ 1,500 00	
Pay 1898 repairs.....	2,000 00	
Case avenue sewer.....	13,000 00	
	<hr/>	16,500 00
		<hr/>
Surplus.....		\$ 909 45

No levy.

Sewer District No. 2.

Established by ordinance passed May 22, 1860.

Main Sewers.

STERLING AVENUE, from Woodland avenue to St. Clair to Alabama to Lake Erie.

PERRY STREET, from Woodland to Euclid to North Perry to St. Clair street to Alabama to Lake Erie.

DODGE STREET, from Euclid avenue to Lake street to Davenport to Dietmer's Run to Lake Erie.

No sewer bonds outstanding December 31, 1897.

Valuation, 1894 \$11,016,525.00.

Estimate for tax levy of 1897, made June 1, 1897.

Cash on hand.....	\$ 6,314 90	
Pay 1897 repairs.....	\$ 2,700 00	
Pay 1898 repairs.....	3,000 00	
	<hr/>	5,700 00
		<hr/>
Surplus.....		\$ 614 90

No levy.

TABLE No. 136.—Continued.

Sewer District No. 3.

Established by ordinance passed May 22, 1860, and amended as at present defined May 7, 1861.

Main Sewers.

WOODLAND AVENUE, from Erie street to Eagle street to Canal street, thence to the culvert under the canal opposite the west end of Eagle street

SENECA STREET, from Superior to Lake Erie.

ONTARIO STREET, from Eagle street to Lake Erie.

ERIE STREET, from Woodland avenue to Lake Erie.

Sewer bonds outstanding December 31 1897, \$49,000.00.

Valuation, 1897, \$31,128,940.00.

Estimate for tax levy of 1897, made June 1, 1897:

Cash on hand.....		\$19,072 57	
1896 tax		15,000 00	
		<hr/>	\$34,072 57
Pay 1897 repairs.....	\$ 2,800 00		
" 1897 interest	375 00		
" 1898 repairs.....	4,000 00		
" 1898 interest	1,750 00		
Bonds	35,000 00		
Superior, Erie and Walnut sewers.....	110,000 00		
		<hr/>	144,425 00
Short			\$110,352 43
Issue bonds.....			80,000 00
			<hr/>
Deficiency			\$30,352 43
Levy, 1 mill.			

Sewer District No. 4.

Established by ordinance passed May 22, 1860.

Main Sewers.

MULBERRY STREET, from Pearl to Old Ship Canal.

DETROIT STREET, from Kentucky street to Center to Cuyahoga River

BRIDGE STREET, from Fulton street to Franklin avenue to Columbus to Cuyahoga River.

LORAIN STREET, from Fulton street to Columbus to Cuyahoga River.

MONROE STREET, to Willett to Pearl to Walworth Run.

PEARL STREET (proposed), from Franklin to Brevier to Walworth street.

Sewer district bonds outstanding December 31, 1897, \$101,000.00.

Valuation, 1897, \$5,056,790.00.

Estimate for tax levy of 1897, made June 1, 1897:

Cash on hand.....	\$ 561 64	
1896 tax.....	1,100 00	
	<hr/>	\$ 1,661 64
Pay 1897 repairs.....	\$ 1,300 00	
" 1898	2,000 00	
" 1897 interest.....	1,020 00	
" 1898	2,040 00	
Walworth sewer	111,000 00	
	<hr/>	117,360 00
Issue bonds....	100,000 00	
	<hr/>	17,360 00
Deficiency		\$15,696 36
Levy, 3 mills.		

TABLE NO. 136.—Continued.

Sewer District No. 5.

Established by ordinance passed May 22, 1860, and amended as at present defined September 2, 1873.

Main Sewers.

COURTLAND STREET, from Twenty-third street to Lorain street.

OAKLAND STREET, Main from Lake Erie and Waverly street in Waverly to Twenty-third avenue to Taylor to Franklin to Harbor to Randall to Lorain.

WAVERLY STREET, from Twenty-third avenue to Lorain street.

LORAIN STREET, from Courtland street to Gordon avenue.

Sewer district bonds outstanding December 31, 1897, \$32,000.00.

Valuation, 1897 \$4,798,210.00.

Estimate for tax levy of 1897, made June 1, 1897:

Cash on hand.....		\$ 3,558 13	
1896 tax.....		1,100 00	
		<u> </u>	\$ 4,658 13
Pay 1897 repairs.....	\$ 2,100 00		
" 1898 "	2,500 00		
" 1897 interest.....	100 00		
" 1898 "	200 00		
Walworth street sewer.....	17,000 00		
Gordon avenue sewer.....	20,000 00		
	<u> </u>	\$41,900 00	
Issue bonds.....		23,000 00	
		<u> </u>	18,900 00
Deficiency.....			\$14,241 87

Levy 3 mills.

Sewer District No. 6.

Established by ordinance passed May 3, 1870.

Main Sewer.

BROADWAY, from Kingsbury Run to Perry street.

No sewer district bonds outstanding December 31, 1897.

Valuation, 1894, \$306,510.00.

Estimate for tax levy of 1897, made June 1, 1897:

Cash on hand.....		\$ 934 86	
Pay 1897 repairs.....	\$ 300 00		
Pay 1898 repairs.....	500 00		
		<u> </u>	800 00
Surplus.....			\$ 134 86

No levy.

PART VI.

THE SEWER DISTRICTS.

TABLE NO. 136.—Continued.

Sewer District No. 11.

Established by ordinance passed September 2, 1873.

Main Sewers.

KENILWORTH STREET, from Walworth street to Merchant avenue.

SCRANTON AVENUE, from Kenilworth street to Pearl street.

JENNINGS AVENUE, from Kenilworth street to Holmden avenue.

Sewer district bonds outstanding December 31, 1897, \$35,000.00.

Valuation, 1897, \$2,853,140.00.

Estimate for tax levy of 1897, made June 1, 1897:

Cash on hand.....		\$ 4,257 41
Pay 1897 repairs.....	\$ 300 00	
Pay 1898 repairs.....	500 00	
Walworth sewer.....	78,000 00	
		<hr/> 78,800 00
Short.....		\$ 74,542 59
Bond Issue.....		<hr/> 66,000 00
Deficiency.....		<hr/> 8,542 59

Levy, 3 mills.

Sewer District No. 12.

Established by ordinance passed September 2, 1873, and amended as at present defined by ordinance No. 2,513, passed September 6, 1892.

Main Sewer.

PEARL STREET, from Walworth street to Library street.

Sewer district bonds outstanding December 31, 1897, \$50,000.00.

Valuation, 1897, \$2,931,410.00.

Estimate for tax levy of 1897, made June 1, 1897:

Cash on hand.....		\$2,246 50
1896 tax.....		1,400 00
		<hr/> \$ 3,646 50
Pay 1897 repairs.....	\$ 700 00	
Pay 1898 repairs.....	1,000 00	
Walworth sewer.....	113,000 00	
		<hr/> \$114,700 00
Issue bonds.....		<hr/> 103,000 00
		<hr/> 11,700 00
Deficiency.....		\$ 8,053 50

Levy, 3 mills.

TABLE NO. 136.—Continued.

Sewer District No. 13.**WEST CLEVELAND SEWER DISTRICT.**

Established by ordinance No. 3593, passed July 2, 1894, and ordinance No. 11920, passed July 6, 1896.

Main Sewers.

DETROIT STREET, from Gordon avenue to Highland avenue.

LAKE AVENUE, from Detroit street to L. S. & M. S. R. R.

GORDON AVENUE, from Bridge street to L. S. & M. S. R. R.

L. S. & M. S. R. R., from Alger street to Lake avenue.

Sewer district bonds outstanding December 31, 1897, \$63,000.00.

Valuation, 1897, \$2,718,000.00.

Estimate for 1897 tax levy, made June 1, 1897:

Cash on hand.....		\$ 71,974 32	
1896 tax.....		4,000 00	\$ 75,974 32
Pay 1897 repairs.....	\$ 1,400 00		
" 1898 "	2,000 00		
" 1897 interest.....	1,260 00		
" 1898 "	2,520 00		
Detroit sewer }			
Lake " }			
Gordon " }			
L.S.&M.S. " }		\$194,000 00	
		\$201,180 00	
Issue bonds.....		117,000 00	84,180 00
Deficiency.....			\$ 8,205 68

Levy, 3 mills.

Sewer District No. 14.

Established by ordinance No. 1468, passed September 22, 1890.

Main Sewer.

KINSMAN STREET, from Kingsbury Run to East Madison avenue.

Sewer district bonds outstanding December 31, 1897, \$74,000.00.

Valuation, 1897, \$2,969,100.00.

Estimate for 1897 tax levy, made June 1, 1897:

Cash on hand.....			\$ 8,208 99
Pay 1897 repairs.....	\$ 800 00		
" 1897 interest.....	710 00		
" 1897 bonds.....	2,000 00		
" 1898 repairs.....	1,000 00		
" 1898 interest.....	1,320 00		
" 1898 bonds.....	2,000 00		
Francis sewer }			
Tod " }		50,000 00	
		\$57,830 00	
Issue bonds.....		45,000 00	\$ 12,530 00
Deficiency.....			\$ 4,621 01

Levy, 2 mills.

TABLE NO. 136.—Continued.

Sewer District No. 15.

EAST MADISON AVENUE SEWER DISTRICT.

Established by ordinance passed August 15, 1881; amended by ordinance passed July 10, 1882; amended by ordinance passed December 11, 1882; amended by ordinance No. 1522, passed October 20, 1890; as at present defined by ordinance No. 1889, passed July 27, 1891.

Main Sewers.

EAST MADISON AVENUE, from Holton to Lake Erie.

SUB MAINS in St. Clair, Superior, Wade Park, Hough, Euclid, Cedar, Quincy, Woodland, Holton.

KINSMAN STREET, from E. Madison to Woodland Hills avenue.

UNION STREET (proposed), Groton to Woodland Hills.

Sewer district bonds outstanding December 31, 1897, \$295,000.00.

Valuation, 1897, \$17,849,440.00.

Estimate for 1897 tax levy, made June 1, 1897:

Cash on hand.....	\$ 44,990 82	
1896 tax.....	24,000 00	
	<hr/>	\$ 68,990 82
Pay 1897 repairs.....	4,000 00	
" 1897 interest.....	7,827 50	
" 1897 bonds.....	45,060 00	
" 1898 repairs.....	5,000 00	
" 1898 interest.....	13,406 00	
" 1898 bonds.....	29,000 00	
Kinsman sewer.....	27,000 00	
	<hr/>	\$131,232 50
Issue bonds.....	12,000 00	
	<hr/>	119,232 50
Deficiency.....		\$ 50,241 88
Levy, 3 mills.		

TABLE NO. 136.—Continued.

Sewer District No. 16.

WALWORTH RUN SEWER DISTRICT.

Established by ordinance passed April 9, 1883, and amended as at present defined by ordinance 2401, passed April 1, 1892.

Main Sewers.

BURTON STREET, from Walworth to Clark.
 BURTON STREET, from Walworth to Cook.
 CLARK AVENUE, from Burton to Alum.
 CLARK AVENUE, from Walworth to Lorain.
 RIDGE AVENUE, from Clark to Dennison.

Ravine Street Main Sewer.

LORAIN STREET, from Gordon to Wellington.
 WALWORTH STREET, proposed main.
 Sewer district bonds outstanding December 31, 1897, \$106,000.00.
 Valuation, 1897, \$3,119,450.00.
 Estimate for 1897 tax levy, made June 1, 1897:

Cash on hand.....		\$ 1,393 20	
1896 tax.....		4,000 00	
		<hr/>	\$ 5,393 20
Pay 1897 repairs.....	\$ 800 00		
" 1897 interest...	1,106 00		
" 1897 bonds.....	6,000 00		
" 1898 repairs.....	1,000 00		
" 1898 interest.....	1,910 00		
" 1898 bonds.....	8,000 00		
Walworth sewer.....	112,000 00		
	<hr/>	\$130,815 00	
Issue bonds.....		137,000 00	
		<hr/>	13,815 00
Deficiency.....			\$ 8,421 80

Levy, 3 mills.

TABLE No. 136.—Continued.

Sewer District No. 17.**BROADWAY SEWER DISTRICT.**

Established by ordinance passed August 6, 1883.

Main Sewers.

BROADWAY, from Kingsbury Run to Ætna.

PETRIE STREET, from Broadway to Morgan Run.

UNION STREET (proposed), Broadway to Groton.

Sewer district bonds outstanding December 31, 1897, \$23,000.00.

Valuation, 1897, \$2,891,020.00.

Estimate for 1897 tax levy, made June 1, 1897:

Cash on hand.....		\$ 9,076 52	
1896 tax.....		4,000 00	
			\$ 13,076 52
Pay 1897 repairs.....	\$ 1,200 00		
" 1897 interest.....	530 00		
" 1897 bonds.....	2,000 00		
" 1898 repairs.....	1,500 00		
" 1898 interest.....	910 00		
" 1898 bonds.....	4,000 00		
Harvard sewer.....	12,000 00		
		\$ 22,140 00	
			22,140 00
Deficiency.....			\$ 9,063 48
Levy, 3.mills.			

Sewer District No. 18.**NEWBURGH SEWER DISTRICT.**

Established by ordinance passed March 16, 1887.

Main Sewers.

BROADWAY, from Ætna to Miles.

MARCELLINE, from Broadway to Harvard.

MILES, from Broadway to City Limits.

Sewer district bonds outstanding December 31, 1897, \$45,000.00.

Valuation, 1897, \$1,914,660.00.

Estimate for 1897 tax levy, made June 1, 1897:

Cash on hand.....		\$ 2,133 75	
1896 tax.....		2,700 00	
			\$ 4,833 75
Pay 1897 repairs.....	\$ 200 00		
" 1897 interest.....	1,065 00		
" 1897 bonds.....	5,000 00		
" 1898 repairs.....	500 00		
" 1898 interest.....	1,920 00		
" 1898 bonds.....	5,000 00		
Harvard sewer.....	4,000 00		
		\$17,705 00	
Issue bonds....		7,000 00	
			10,705 00
Deficiency.....			\$ 5,871 25
Levy, 3 mills.			

TABLE NO. 136.—Continued.

Sewer District No. 19.

TOD STREET MAIN SEWER DISTRICT.

Established by ordinance No. 3198, passed August 28, 1893.

Main Sewer.

TOD STREET Main proposed.
Sewer district bonds outstanding December 31, 1897, \$23,000.00.
Valuation, 1897, \$351,750.00.
Estimate for 1897 tax levy, made June 1, 1897 :

Cash on hand.....		\$ 24,643 70
Pay 1897 repairs.....	\$ 300 00	
" 1897 interest.....	460 00	
" 1898 repairs.....	500 00	
" 1898 interest.....	920 00	
Tod sewer.....	23,000 00	
		<hr/> 25,180 00
Deficiency		\$ 536 30

Levy, 3 mills.

Sewer District No. 20.

WADE PARK SEWER DISTRICT.

Established by ordinance No. 3685, passed July 23, 1894, and ordinance No. 12394, passed August 10, 1896.

Main Sewers.

MAYFIELD, from Knox to Fairview.
MURRAY HILL, from Mayfield to Adelbert.
DOAN STREET Main proposed.
No sewer district bonds outstanding December 31, 1897.
Valuation, 1897, \$1,840,220.00.
Estimate for 1897 tax levy, made June 1, 1897 :

Cash on hand.....		\$ 59 70
Pay 1897 repairs.....	8 300 00	
" 1898 repairs.....	500 00	
" Unclaimed money.....	900 00	
" Mayfield sewer.....	3,000 00	
		<hr/> 4,700 00
Deficiency.....		\$ 4,640 30

Levy, 3 mills.

TABLE NO. 136.—Concluded.

Sewer District No. 21.

BROOKLYN SEWER DISTRICT.

Established by ordinance No. 11813, June 22, 1896.
Valuation, 1897, \$319,550.00.
Sewer district bonds outstanding December 31, 1897, \$7,000.00.
Plans not yet perfected for main sewers.
Estimate for 1897 tax levy, made June 1, 1897:

Cash on hand.....	\$752 29	
1896 tax.....	500 00	
	<hr/>	\$1,252 29
Pay 1897 repairs	\$ 500 00	
Pay 1898 repairs	500 00	
Walworth sewer.....	14,000 00	
	<hr/>	
	\$15,000 00	
Issue bonds.....	13,000 00	
	<hr/>	\$2,000 00
		<hr/>
Deficiency.....		\$747 71
Levy, 3 mills.		

Commercial Street Main Sewer District.

Established by ordinance passed August 24, 1875.

Main Sewer.

COMMERCIAL STREET, from Hill to Canal to Stone's Levee to Cuyahoga River.
No sewer district bonds outstanding December 31, 1897.
Valuation, 1897, \$398,790.00.
Estimate for 1897 tax levy, made June 1, 1897:

Cash on hand.....		\$596 01
Pay 1897 repairs.....	\$300 00	
Pay 1898 repairs.....	500 00	
	<hr/>	800 00
		<hr/>
Deficiency.....		\$203 99
Levy, 1 mill.		

PART VII.

COMPARATIVE TABLES.

TABLE No. 137.

COMPARISON OF THE RECEIPTS AND DISBURSEMENTS OF
THE CITY OF CLEVELAND FOR THE FOLLOWING YEARS.

	1894	1895	1896	1897	1898	1899
RECEIPTS.						
General tax.....	\$1,773,026 45	\$1,810,253 03	\$1,822,163 96	\$1,902,347 75	.....	.....
Liquor tax.....	357,754 84	348,128 73	383,095 16	407,943 73	.....	.....
Cigarette tax .....	.....	3,595 62	2,175 77	2,364 97	.....	.....
Sewer District tax.	190,210 68	148,355 25	126,890 50	158,514 00	.....	.....
Special Assessments.....	668,786 26	686,294 64	547,912 95	464,418 35	.....	.....
Licenses	76,734 98	92,503 60	97,017 22	90,132 97	.....	.....
Rents.....	589,016 96	629,006 65	651,445 97	673,341 12	.....	.....
Fees	94,278 91	121,300 63	107,953 26	116,960 84	.....	.....
Interest.....	353,911 66	209,922 81	242,700 09	366,280 10	.....	.....
Sales.....	118,430 60	122,044 51	140,440 87	92,831 24	.....	.....
Investments.....	57,541 79	81,733 54	35,536 98	28,033 70	.....	.....
Donations.....	163,831 45	.....	257,230 40	81,039 72	.....	.....
Sale of Assets	14,871 14	.....	.....	11,078 00	.....	.....
Sale of Bonds.....	1,289,023 72	464,000 00	1,076,000 00	2,482,000 00	.....	.....
Sale of Notes.....	315,535 00	423,560 00	226,500 00	319,940 00	.....	.....
Deposits	7,218 70	3,130 04	7,400 41	5,961 00	.....	.....
Total Receipts.....	\$6,070,173 14	\$5,143,848 85	\$5,724,483 54	\$7,203,256 54	.....	.....
DISBURSEMENTS.						
Fixed charges	\$1,684,466 21	\$1,751,490 41	\$1,759,568 99	\$1,854,044 80	.....	.....
Supplies	789,776 91	821,880 26	855,843 29	843,848 29	.....	.....
Office Furniture.....	3,736 31	4,076 72	2,920 15	2,095 78	.....	.....
Institution Furniture...	14,868 70	6,165 10	7,552 31	10,463 19	.....	.....
Machinery & Implem'ts	145,789 93	51,113 66	79,027 59	68,962 35	.....	.....
Investments.....	81,154 35	83,124 26	21,012 82	35,766 63	.....	.....
Land	490,311 71	200,726 31	109,735 31	130,304 48	.....	.....
Buildings.....	180,726 25	40,341 20	25,546 13	157,305 87	.....	.....
Public Ornaments.....	1,234 68	2,152 93	174,688 37	542 003 58	.....	.....
Public Highways.....	1,032,246 34	991,519 41	320,290 71	839,624 56	.....	.....
Sewer and Water System	559,792 63	451,953 75	527,161 30	907,786 07	.....	.....
To redeem Bonds.....	855,972 66	1,266,628 66	1,081,098 66	1,189,243 66	.....	.....
To redeem Notes	134,744 00	165,077 00	274,839 00	287,261 00	.....	.....
To return Deposits	16,501 55	8,590 51	3,528 50	8,417 00	.....	.....
Total Disbursements.	\$5,126,374 68	\$4,725,656 72	\$4,073,074 95	\$6,877,217 26	.....	.....

TABLE NO. 138.

COMPARISON OF ASSETS AND LIABILITIES OF THE CITY OF CLEVELAND ON DEC. 31, FOR THE FOLLOWING YEARS.

	1894	1895	1896	1897	1898	1899
ASSETS.						
Cash in Treasury	\$ 1,843 102 54	\$ 1,205,276 50	\$ 1,810,102 93	\$ 1,968,126 37	.....	.....
Cash in hands of Skg. Fd. C'rs	2,195,166 37	2,132,001 08	2,008,805 06	2,156,820 90	.....	.....
Office Furniture	52,669 34	56,746 06	59,666 21	61,761 99	.....	.....
Institution Furniture	111,408 05	117,573 15	130,476 34	140,939 53	.....	.....
Machinery and Implements.	890,941 63	932,055 29	1,011,082 88	1,080,045 23	.....	.....
Investments.....	64,563 59	70,275 66	53,958 86	61,691 79	.....	.....
Land, B'dings and Imp'm'ts	8,112,138 13	8,355,358 57	8,621,588 57	9,363,560 34	.....	.....
Public Highways.....	10,595,700 68	11,587,220 09	11,956 536 67	12,868,308 84	.....	.....
Sewer and Water Systems...	10,015,848 72	10,467,802 47	10,994,963 77	11,907,266 39	.....	.....
Total Assets	\$33,850,264 35	\$34,924,308 87	\$36,647,181 29	\$39,628,521 38	.....	.....
LIABILITIES.						
Bonds Outstanding.....	\$ 9,821,460 98	\$ 9,018,832 32	\$ 9,013,733 66	\$10,306,500 00	.....	.....
Notes Outstanding.....	419,249 00	677,732 00	629,393 00	661,992 00	.....	.....
Deposits Outstanding.....	25,495 34	20,034 87	23,906 78	26,450 78	.....	.....
Total Liabilities.....	\$10,266,205 32	\$ 9,716,599 19	\$ 9,667,033 44	\$10,994,942 78	...	.....
Excess of Assets.....	\$23,584,059 03	\$25,207,709 68	\$26,980,147 85	\$28,633,578 60	.....	.....

TABLE No. 139.—Concluded.

COMPARISON OF THE OPERATING EXPENSES OF THE CITY GENERAL FUNDS FOR
THE FOLLOWING YEARS.

Year.	House of Cor- rection Fund.	Infirmary Fund.	Fire Fund.	Dredging Fund.	Interest Fund.	Lighting Fund.	Sewer Districts, Special Funds and Street Im- provements.	Totals.	Population.
1880.....	\$ 113,134 31	\$ 38,987 11	\$ 128,426 60	\$ 25,627 67	\$ 402,082 50	\$ 90,385 22	\$ 72,759 71	\$1,283,640 99	160,141
1881.....	79,052 10	39,528 41	145,533 35	60,426 57	385,665 83	91,785 95	53,092 51	1,349,771 38	167,413
1882.....	86,882 28	39,790 93	154,686 94	34,494 78	376,581 84	100,162 07	82,949 33	1,418,270 84	185,851
1883.....	104,385 52	47,011 10	163,625 66	36,675 28	381,529 47	108,010 50	72,818 72	1,481,616 90	194,684
1884.....	85,686 32	54,725 14	179,467 51	38,544 67	388,193 50	104,927 17	67,607 77	1,530,618 80	200,429
1885.....	127,416 33	55,112 67	201,414 64	26,028 69	413,261 41	111,706 73	95,767 84	1,650,695 73	205,446
1886.....	110,393 89	55,447 61	191,577 00	24,195 61	429,500 00	123,618 81	99,947 26	1,625,201 19	214,013
1887.....	121,259 37	79,786 18	217,067 45	15,710 17	444,410 22	126,738 39	85,106 56	1,868,981 37	238,916
1888.....	119,116 53	90,643 11	233,493 64	23,724 99	467,060 00	139,779 67	69,522 19	1,926,462 57	254,286
1889.....	135,731 49	74,715 38	253,263 89	33,543 97	451,572 60	164,574 66	89,513 84	2,111,442 14	253,686
1890.....	123,780 91	93,270 72	257,595 59	26,627 64	461,016 85	156,018 49	53,907 24	2,183,605 19	261,353
1891.....	102,300 95	102,661 12	276,186 61	16,178 66	436,084 22	121,585 74	60,675 54	2,185,554 69	274,000
1892.....	145,332 02	95,018 85	298,562 17	25,167 63	329,203 82	241,181 63	107,207 88	2,487,990 68	300,010
1893.....	111,163 07	128,133 58	346,403 38	24,758 12	330,637 00	199,723 45	107,376 20	2,541,684 28	326,000
1894.....	42,646 46†	137,997 49	376,604 85*	17,602 78	94,620 00*	200,257 18	108,728 45	2,474,243 12	342,000
1895.....	46,584 12†	127,615 68	415,673 30*	23,737 14	94,170 00*	229,288 79	139,911 72	2,573,370 67	351,000
1896.....	46,860 89	117,647 82	432,272 43	39,963 35	84,715 00	225,293 00	153,707 20	2,615,412 28	368,000
1897.....	43,413 17	132,909 71	436,488 82	25,150 47	112,535 00	235,325 68	129,327 64	2,697,893 09	380,000
1898.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1899.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1900.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

* NOTE.—The interest paid on Bridge, Fire and Police Bonds was charged to Interest Fund up to and including 1893; thereafter it was charged to the respective funds from which such payment was made.

† NOTE.—The "Expenses" reported for House of Correction included payments for material for manufacturing purposes up to and including 1893; thereafter such purchases were charged to "Investments."

NOTE.—Population, 1880-1890, Federal Census; 1881 to 1889 inclusive, Police Census; 1891 to 1897 inclusive, Directory Estimate.

TABLE NO. 140.

COMPARISON OF THE INCOME OTHER THAN TAXES OF THE CITY GENERAL FUNDS
FOR THE FOLLOWING YEARS.

(Including Earnings, Licenses, Sales and Investments.)

[illegible]

TABLE No. 141.
COMPARISON OF TAX DUPLICATE VALUATIONS AND LEVIES THEREON FOR THE
FOLLOWING YEARS.

Year.	Real Estate Valuation.	Personal Valuation.	Total Valuation.	State Levy per \$1000.	County Levy per \$1000.	School and Library Levy per \$1000.	City Levy per \$1000.	Total levy per \$1.000.
1830...	\$ 53,165,295 00	\$ 20,481,899 00	\$ 73,647,194 00	\$2 90	\$2 90	\$4 75	\$15 75	\$26 30
1851	59,152,445 00	20,433,711 00	79,586,156 00	2 90	2 90	4 75	14 05	24 60
1882	60,915,745 00	21,693,334 00	82,609,079 00	2 90	3 00	4 75	14 15	24 80
1883.	62,812,185 00	21,677,875 00	84,490,060 00	2 90	2 90	6 25	15 75	27 80
1884.....	64,137,065 00	21,840,930 00	85,978,005 00	2 80	2 30	6 20	14 20	25 50
1885.....	65,436,025 00	22,549,820 00	88,245,845 00	2 90	2 50	6 25	14 35	26 00
1886.....	66,639,175 00	24,473,231 00	91,084,406 00	2 90	2 50	6 25	13 15	24 80
1887	67,926,380 00	25,702,030 00	93,628,410 00	2 90	2 80	6 45	16 15	28 30
1888.....	69,136,345 00	26,786,240 00	95,922,585 00	2 90	2 80	6 45	16 15	28 30
1889.....	70,730,335 00	25,218,750 00	95,949,135 00	2 70	3 30	6 45	15 45*	27 90
1890.....	72,734,940 00	26,879,115 00	99,614,055 00	2 70	2 80	8 35	15 45*	29 30
1891.....	89,512,700 00	28,320,505 00	117,832,205 00	2 45	3 45	6 95	15 45*	28 30
1892.....	91,782,150 00	29,498,065 00	121,280,215 00	2 75	3 85	7 45	13 45	27 50
1893.....	95,508,220 00	31,007,770 00	126,515,990 00	2 75	3 95	7 55	13 65	27 90
1894.....	100,891,800 00	31,748,105 00	132,639,905 00	2 75	4 05	7 65	13 65*	28 10
1895.....	103,223,110 00	31,339,795 00	134,562,905 00	2 75	4 15	7 90	13 70*	28 50
1896.....	103,089,320 00	33,334,065 00	138,473,385 00	2 84	4 16	8 50	13 70*	29 20
1897.....	106,753,620 00	35,161,810 00	141,915,430 00	2 84	4 26	8 60	13 60	29 30
1898.....	.....	.....	.....	.....	.....	.....	.....	.....
1899.....	.....	.....	.....	.....	.....	.....	.....	.....
1900.....	.....	.....	.....	.....	.....	.....	.....	.....

*City levy reduced \$0.05 by County Auditor.

TABLE No. 142.

COMPARISON OF CITY LEVIES PER \$1000 ON THE DUPLICATE VALUATION FOR THE
CITY GENERAL FUNDS FOR THE FOLLOWING YEARS.

Year.	General (Administration) Fund.	Bridge Fund.	Street Fund (Incl. Crosswalk).	Park Fund (Incl. Int.)	Police Fund.	Sanitary Fund (Incl. Hospital).	House of Correction Fund.	Infirmary Fund.	Fire Fund.	Dredging Fund.	Lights Fund.	Interest Fund.	Street Intersection Fund.	Paving Fund.	General Sinking Fund.	Viaduct Sinking Fund.	Total Levy.
1880....	\$1 35	\$0 25	\$0 85	\$0 35	\$1 70	\$0 25	\$.....	\$0 20	\$2 00	\$0 45	\$1 30	\$5 30	\$0 15	\$.....	\$1 55	\$0 05	\$15 75
1881....	1 00	20	75	40	1 85	15	.....	20	1 95	40	1 10	4 55	.....	25	1	05	14 05
1882....	1 35	25	90	35	1 85	25	20	35	1 95	30	1 20	4 60	10	.....	1 40	25	14 15
1883....	1 20	35	95	50	1 85	20	.....	35	2 25	20	1 25	4 80	15	.....	1 85	25	15 75
1884....	1 75	30	95	50	2 00	20	15	40	2 30	15	1 25	4 75	25	.....	1 20	20	14 20
1885....	85	15	70	35	2 00	25	.....	40	2 15	10	1 15	4 85	15	.....	1 15	10	14 35
1886....	25	10	1 30	25	1 05	32½	15	.....	2 37½	10	1 40	3 65	30	.....	2 15	25	13 15
1887....	45	10	87½	25	1 75	32½	15	.....	2 45	10	1 50	4 80	30	.....	2 50	50	16 15
1888....	55	25	1 00	20	1 75	30	15	.....	2 45	10	1 50	4 77½	35	.....	2 75	02½	16 15
1889....	60	40	1 00	27½	1 87½	30	15	10	2 45	10	1 50	3 85	35	.....	2 40	15	15 50*
1890....	60	50	1 05	27½	2 00	35	.....	05	2 45	05	1 50	4 00	67½	1 00	1 00	.....	15 50*
1891....	90	25	90	25	1 80	25	10	.....	2 75	10	1 45	3 15	75	1 00	1 80	05	15 50*
1892....	1 05	30	80	30	1 75	27½	10	.....	2 85	10	1 47½	2 45	50	1 00	.....	50	13 45
1893....	1 00	30	80	65	1 75	27½	10	.....	2 90	10	1 70	1 70	35	1 40	1 80	05	13 65
1894....	80	27	80	75	1 75	27	06	.....	2 95	10	1 70	1 20	32	70	1 00	53	13 70*
1895....	79	19	83	77	1 64	27	14	.....	3 17	10	1 78	1 20	37	70	1	05	13 70*
1896....	84	32	76	1 00	1 62	27	.....	.....	3 26	10	1 75	1 00	36	70	1 25	1 50	13 70*
1897....	85	32	89	1 00	1 58	28	.....	.....	3 29	10	1 55	1 10	44	40	85	96	13 60
1898....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1899....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1900....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

*Total levy reduced \$0.05 by County Auditor.

TABLE No. 143.

COMPARISON OF LEVY PER \$1000 VALUATION ON THE DIFFERENT SEWER DISTRICTS
FOR THE FOLLOWING YEARS.

Year.	S. D. No. 1	S. D. No. 2	S. D. No. 3	S. D. No. 4	S. D. No. 5	S. D. No. 6	S. D. No. 7	S. D. No. 8	S. D. No. 9	S. D. No. 10	S. D. No. 11	S. D. No. 12	S. D. No. 13	S. D. No. 14	S. D. No. 15	S. D. No. 16	S. D. No. 17	S. D. No. 18	S. D. No. 19	S. D. No. 20	S. D. No. 21	S. D. Comm'l.
1880....	\$1 30	\$0 70	\$0 30	\$.....	\$3 20	\$.....	\$3 20	\$.....	\$.....	\$.....	\$.....	\$10 00										\$ 7 50
1881....	1 66	90	45	.....	2 20	.....	8 20	.....	.....	.....	.....	10 40										8 80
1882....	1 00	90	15	.....	70	.....	4 50	.....	15	.....	.....	8 00										.....
1883....	1 20	80	15	.....	90	.....	3 00	.....	15	.....	.....	3 00										.....
1884....	1 00	50	10	.....	1 00	.....	3 00	.....	10	.....	3 00	3 00										.....
1885....	10	10	10	.....	1 00	.....	3 00	.....	30	.....	3 00	3 00										.....
1886....	10	05	05	1 20	1 00	1 00	3 00	50	20	.....	.....	50										1 00
1887....	05	05	05	15	1 00	3 00	3 00	2 00	05	1 50	.....	05										1 05
1888....	.....	50	.....	1 00	3 00	.....	3 00	1 00	50	.....	.....	3 00						\$3 00				.....
1889....	.....	.....	.....	.....	.....	.....	3 00	.....	.....	.....	.....	3 00						.....				2 00
1890....	.....	50	1 20	3 00	3 00	.....	3 00	2 00	50	.....	.....	.....						3 00				.....
1891....	50	.....	.....	.....	1 50	.....	3 00	3 00	.....	.....	.....	.....	\$3 00					3 00				.....
1892....	50	50	50	3 00	3 00	.....	3 00	.....	.....	3 00	.....	.....	3 00					3 00				.....
1893....	3 00	50	50	3 00	3 00	.....	3 00	.....	50	3 00	.....	3 00	2 00					3 00	\$3 00			3 00
1894....	.....	1 00	30	3 00	2 00	1 00	2 00	2 00	.....	.....	.....	.....	3 00					3 00	.....	\$3 00		2 00
1895....	50	.....	50	.....	50	.....	2 00	.....	.....	.....	.....	.....	3 00					3 00	.....	.....		.....
1896....	2 00	.....	1 00	50	50	.....	2 00	.....	.....	3 00	.....	.....	3 00					3 00	3 00	.....	\$3 00	.....
1897....	.....	.....	1 00	3 00	3 00	.....	2 00	1 00	.....	3 00	3 00	3 00	.....					3 00	3 00	3 00	3 00	1 00
1898....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....					.....	.....	.....	.....	.....
1899....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....					.....	.....	.....	.....	.....
1900....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....					.....	.....	.....	.....	.....

TABLE No. 146.

RESULTS IN 1897 BY COMPARISON WITH 1896.

Increase of assets (table No. 138).....	\$2,981,340 69
Increase of liabilities (table No. 138).....	1,327,909 34
Net gain (table No. 138).....	1,653,430 75
Increase of population estimated (table No. 139).....	12,000 00
Increase of operating expenses (table No. 139).....	82,480 81
Increase of income other than taxes (table No. 140).....	103,593 63
Increase of duplicate valuation (table No. 141).....	3,442,045 00
Decrease of city levy per \$1,000 on above valuation (table No. 142).....	10
Increase of amount received from city levy (table No. 137).....	80,183 79
Increase of cash balance January 1st, (table No. 145).....	178,023 44

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DEPARTMENT
OF
PUBLIC WORKS.

CITY OF CLEVELAND, OHIO.

Department of Public Works.

GEORGE R. WARDEN, Director.

W. P. CHARD, Deputy Director.

FIRST SUB-DIVISION :

M. W. KINGSLEY, Supt. of Water Works.

SECOND SUB-DIVISION :

J. P. MURRAY, Supt. of Streets.

THIRD SUB-DIVISION :

M. E. RAWSON, Chief Engineer.

Report of the Director of Public Works.

OFFICE OF THE DEPARTMENT OF PUBLIC WORKS, }
CLEVELAND, O., January, 1898. }

To the Honorable Mayor and City Council of the City of Cleveland :

GENTLEMEN:—I have the honor to submit the Annual Report of the Department of Public Works for the year ending December 31, 1897.

The work performed by the various Divisions of this Department has been greater than ever before, which will be seen by reference to the detailed reports from the heads of the different Divisions and tables presented herewith.

The following is a partial summary of the more important public improvements taken up and completed, or partially completed, by the Department of Public Works during the past year :

Work on the tunnel proper is well under way, 4,507 feet having been completed during the year from the shore end.

Temporary crib No. 1, to be used in the construction of the new water works tunnel, was completed and sunk on May 27th at a point about 11,600 feet from shore; and a start has been made on the tunnel in both directions from this crib. The work on temporary crib No. 2 was delayed to such an extent that the contract had to be taken from the contractor and turned over to his bondsmen. This crib is now completed and in position about 18,800 feet from the shore end. The steel crib, to be used at intake of tunnel, was commenced April 1st, and it will be completed early in the summer of 1898.

The water tunnel under the river at Main street has been completed; also the new tunnel, made necessary by the river widening project, at Superior street.

The new engine and boiler houses at the Division street pumping station have been completed. Contracts have been awarded for six water tube boilers for this station, which are now

under construction; and five new tubular boilers, equipped with stokers, have been placed in the station during the year. The new pumping engine is completed, and at the present time is being placed in position at the pumping station.

There has been a gain of 18 miles of water pipe laid during the year, making a total of 499 miles and 4,796 feet in present use. There have been placed 232 fire hydrants, making the present total 5,712. There has been a net gain of 1,818 connections to water mains during the year, making a total of 48,207 now in use. Two hundred and forty-six new water meters have been set and 147 removed during the year, making a net gain of 99 and a total of 2,046 in present use.

There have been 17,658,270,308 gallons of water pumped at the Division street pumping station, a daily average of 48,379,371 gallons, which shows an average increase in the consumption of 2,749,496 gallons per day over the water used in 1896, or an increase of 5.74%. The high service pumping station pumped 15% more water than in the previous year, pumping a daily average of 2,725,290 gallons.

The net receipts from water collections for the year 1897 were \$623,173.22, a gain of \$18,899.22.

There has been a marked saving in the cost of fuel for pumping during the year the average cost of coal being \$2.18 for pumping 1,000,000 gallons of water, as against \$2.40 for the year 1896, a decrease of 11%.

There have been issued during the year 5,107 permits for sewer and water connections.

Considerable effort has been made to prevent the flooding of the streets by sprinkling carts; but, owing to the ordinance providing no penalty for carelessness in this work, it has been necessary to obtain new regulations covering this important matter. This ordinance is now in the Council, and will undoubtedly be passed so that it will enable the Department to prevent a continuance of this nuisance.

Seven people have been arrested during the year for doing plumbing without a license; all of whom were convicted and fined. It is my intention to rigidly enforce the plumbing ordinance for the better protection of the public and those who live up to the regulations,

The Street Division cleaned and rounded up 842.6 miles of dirt streets; repaired 16,551 feet of wooden box gutters; laid and relaid 45,231 feet of crosswalks; cleaned 2,107.4 miles of pavement during the year just ended, as against 998.5 miles during the year 1896.

Thirty-nine streets have been paved and repaved during the year 1897, a gain of 8.73 miles, making a total of 136.23 miles of paved streets in the city at the present time.

Fifteen streets were graded and curbed, a total of $2\frac{1}{2}$ miles in length. There have been 79 sewers under contract and constructed during the year; upon which there has been expended \$402,454.97. This work includes a start on two sections of the Walworth Run Sewer, the Intercepting Sewer along the right-of-way of the L. S. & M. S. Railway, the Lake avenue and Detroit street sewers and a large number of other important sewers.

The river widening work from Main street to a point 885 feet southerly has been completed; also on the easterly side of the river from Seneca to Mahoning street. This important work should be pushed as fast as possible. There has been 164,296 cubic yards of dredging done during the year, at a cost of \$22,346.43.

Six hundred feet has been added to the length of the pier at Erie street. Considerable ground has been made west of this point, opposite Lake View Park, during the past year, being at present about four acres.

The new bridge at Willow street was completed and opened for travel on August 17th, at a total cost of \$94,032.10.

The high level bridge on Willson avenue, at the crossing of the N. Y., C. & St. L. Railroad, is nearing its completion,

The bridge over the L. S. & M. S. and the C. & P. Railways, at Seneca street, was completed early in the year.

The bridge over the Old River Bed, at the L. S. & M. S. Railway, has been practically completed by the Railway Company during the year, the whole cost of same being borne by them.

A thorough inspection of all bridges has been made by competent experts; and the bridges found in first class condition, except for the replanking and repainting of some, a large part of which has been done during the year.

All but one or two of the options for rights of way for the Martin-Praha and Willett street bridges have been secured, insuring an early start on the actual construction of these important improvements.

Thirteen streets have been dedicated and accepted by the City. Grades have been established on 44 streets, an aggregate length of 9.9 miles.

The City has expended for the lighting of streets in 1897: For Gas lamps, \$97,818.14; for Vapor lamps, \$66,319.25; for Electric lamps, \$62,778.20. The number of Electric lamps was increased 344, an addition of 70% over the preceding year,

There has been a marked decrease in the cost of vapor lighting during the year, the cost per lamp being \$12.52, as against \$16.23, the preceding year, a saving of \$16,546.60.

Four thousand one hundred and ninety street signs have been ordered, the most of which have been placed in position upon the streets during the year, and within sixty days a suitable sign will be placed at every intersection.

Nearly seven miles of conduits have been laid by the different telephone, telegraph and electric light companies during the year, under the supervision of this Department.

The cost of pumping in the Water Works Division is so far above what it should be, providing the Division street station was equipped with a modern plant, that I believe it to be to the city's best interests to immediately proceed to the purchase of another high duty pump, so that the ordinary needs of the city may be supplied by modern and economical machinery. I am of the opinion that with the pump now being placed in position, and another one of sufficient capacity to take care of the regular average consumption, the city could save at least one-half of the fuel now used, making an annual saving in the item of fuel alone of over \$20,000.00. This, with other reductions consequent upon the introduction of a new engine, would, in my opinion, pay for the cost of the same inside of four years. I would therefore recommend that steps be taken to secure a new engine for the Division street pumping station at once. This, together with the necessary pushing forward for the buildings and machinery for the new pumping station at Coe street (plans for which are now nearly completed) and the laying of water mains prepara-

tory to connecting the city's system of water service with the new intake tunnel, and the completion of the permanent crib and tunnel, will occupy the Water Works Division with an unusual amount of work for the ensuing year.

I would further recommend that some means be devised whereby the Department may secure funds for the better care and repair of our present paved streets. The long neglect in this very important work has resulted in a very serious loss to the city. Owing to the fact that no funds are provided for the repair of these streets, the life of a pavement is shortened from five to ten years, which, in the end, is a serious matter to the taxpayer, as he actually pays the amount of this expense many times over by the renewing of the pavement much sooner than it should be. If funds cannot be provided from the ordinary city revenue, I deem this of enough importance to assess a frontage tax on the streets benefited to the amount necessary to make these repairs.

Immediate steps should be taken to relieve the conditions which prevent territory in the vicinity of Giddings Brook, Kingsbury and Morgan Runs from having proper sewerage. I have had prepared during the past year, surveys of the valleys of Kingsbury and Morgan Runs preparatory to going forward with this work. The diverting of the waters of Giddings Brook, which have caused so much damage, and the building of the Doan street sewer, seem to me to be the important projects for the Division of Sewers for the coming year; and the necessary legislation should be put through this winter to go forward with this important work.

The extension of Clark avenue is of sufficient importance that it should be given careful consideration. This is an improvement very much needed, and should be carried out as soon as some practical plan can be perfected for connecting these two important sections of our city—the South Side and the South end (known as Newburgh).

In conclusion I desire to commend to your attention the very valuable assistance rendered me by Deputy Director W. P. Chard, the heads of the different Divisions and all the present employes of the Department of Public Works, to whom very great credit is due for their conscientious carrying out of the

work entrusted to their care; for which assistance I feel deeply grateful, as, without it, it would have been impossible to have carried on the unusually large amount of work thrust upon the Department during the past year.

I also desire to express my thanks to the Honorable Mayor, the Honorable City Council and the Board of Control for the universally courteous treatment and consideration shown to me in the carrying out of the city's business.

Respectfully submitted,

GEO. R. WARDEN,

Director of Public Works.

DEPARTMENT OF PUBLIC WORKS.

First Subdivision--Water Works.

REPORT OF SUPERINTENDENT.

Forty-Second Annual Report upon the Condition of the Water Works;

BEING THE SEVENTH ANNUAL REPORT OF THE
FIRST DIVISION OF THE DEPARTMENT
OF PUBLIC WORKS.

HON. GEO. R. WARDEN,

Director of Public Works :

DEAR SIR:—I herewith submit the following report and tabulated statements, showing the receipts and disbursements as they appear on the voucher register, together with tables showing service connections made, water meters set, pipe laid, valves and hydrants set, amount of water pumped by each engine, etc.

RECEIPTS
FOR THE YEAR ENDING DECEMBER 31, 1897.

For water from Assessments.....	\$ 396,856 81	.....
“ “ “ Meter Measure	229,457 83	.....
“ “ “ Miscellaneous Sources.....	5,808 54	\$ 632,123 18
For 2,314 connections to main pipe at \$5.00 each.....	11,570 00	.....
“ extra curb cocks, boxes, etc.....	1,347 69	12,917 69
From persons for laying water pipe		5,961 00
On account of Pipe Extension.....	3,529 63	.....
“ “ “ General Repairs.....	163 29	.....
“ “ “ Water Meters	259 18	.....
“ “ “ General Expense.....	1,143 96	.....
“ “ “ West Side Pumping Station.....	922 70	.....
“ “ “ High Service Reservoir.....	16 00	6,034 76
For Postage, Fines, etc.....		152 53
“ Water Works Bonds	700,000 00	.....
“ Interest and Premium on Water Works Bonds.....	21,446 34	721,446 34
Cash in City Treasury January 1, 1897.....	138,353 68	.....
“ Office January 1, 1897.....	1,691 98	140,045 66
Total		\$1,518,681 16

DISBURSEMENTS

FOR THE YEAR ENDING DECEMBER 31, 1897.

On account of Pipe Extension.....	\$ 227,677 14	.....
“ “ “ Miscellaneous Construction.....	19,459 84	.....
“ “ “ New River Tunnel and Pipe	13,470 24	.....
“ “ “ Boiler and Engine House Foundation.....	29,115 29	.....
“ “ “ New Boilers and Stokers.....	11,030 00	\$ 300,752 51
On account of Water Meters		15,277 09
For Corporation Stops, Boxes and Tapping Water Mains.....		11,622 69
On account of General Expense.....	60,524 51	.....
“ “ “ General Repairs.....	11,580 15	.....
“ “ “ West Side Pumping House Expense	89,367 81	.....
“ “ “ West Side Pumping House Repairs.....	10,650 06	.....
“ “ “ High Service Reservoir Expense.....	1,782 18	.....
“ “ “ Fairmount Reservoir Expense.....	1,655 72	.....
“ “ “ Fairmount Pumping House Expense	6,833 26	.....
“ “ “ Fairmount Pumping House Repairs.....	358 46	182,752 15
On account of Crib Repairs.....		3,635 55
“ “ “ New East End Tunnel.....		95,371 85
“ “ “ New East End Crib.....		93,607 66
“ “ “ New Boiler and Engine House.....		18,258 79
“ “ “ New Engine.....		10,939 50
“ “ “ New River Tunnel.....		9,587 55
Paid Sundry Creditors... ..		3,417 00
“ Interest on Water Works Bonds.		110,510 00
“ Water Works Bonds.....		500,000 00
On account Returned Water Rents by Voucher.....		8,949 96
Cash in City Treasury January 1, 1898.....	152,308 17	.....
“ Office January 1, 1898.....	1,690 69	153,998 86
Total		\$1,518,681 16

RECAPITULATION OF VOUCHER REGISTER BILLS PAYABLE.

For the Year ending December 31, 1897.

Pipe Extension.....	\$ 227,677 14
General Repairs.....	11,580 15
Sup't Department Expense.....	51,358 34
General Contingent Expense.....	9,166 17
Old River Pumping Station Expense.....	89,367 81
Old River Pumping Station Repairs.....	10,650 06
Fairmount Pumping Station Expense.....	6,833 26
Fairmount Pumping Station Repairs.....	358 46
Fairmount Reservoir Expense.....	1,655 72
High Service Reservoir Expense.....	1,782 18
Water Meter Account.....	15,277 09
Ferrule and Tapping Account.....	11,622 69
Sundry Creditors' Account.....	3,417 00
Water Rents Returned.....	8,949 96
Interest Account.....	110,510 00
Miscellaneous Construction.....	19,459 84
Crib Repairs.....	3,635 55
New Boiler and Engine House Foundation.....	29,115 29
New River Tunnel and Pipe No. 1.....	13,470 24
New East End Tunnel.....	95,371 85
New East End Crips.....	93,607 66
New Stokers and Boilers.....	11,030 00
New Boiler and Engine House.....	18,258 79
New Engine.....	10,939 50
Water Works Bonds.....	500,000 00
New River Tunnel No. 2.....	9,587 55
Total.....	\$1,364,682 30

As shown in the foregoing for the year ending December 31, 1897

The receipts for water were.....	\$623,173 22
The expense of operating the Department after deducting credits to the various accounts was	182,694 22
Leaving a surplus (available for the enlargement of the works and the payment of interest) of.....	\$440,479 00

LEDGER BALANCE, DECEMBER 31, 1897.

Cash.....	\$ 1,690 69	Water Rents.....	\$6,503,460 82
City Treasurer.....	152,308 17	Bonds Outstanding.....	2,087,000 00
Interest.....	921,169 11	Bonds Redeemed.....	925,000 00
Construction.....	8,020,815 15	Sundry Creditors.....	21,450 78
City of Cleveland.....	36,781 87		
Water Meters.....	167,966 26		
New East End Tunnel.....	103,786 85		
New East End Cribs.....	93,607 66		
New West Side Boiler and Engine House.....	18,258 79		
New Allis Engine.....	10,939 50		
New River Tunnel No. 2.....	9,587 55		
Total	\$9,536,911 60	Total	\$9,536,911 60

THE REVENUE FROM WATER RENTS,

The operating expenses and repairs, and the balance to the credit of water rent after deducting such expenses from the introduction of Lake water into the city until the present time is shown by the following table:

Years.	Gross Receipts.	Operating Expenses.	Repairs.	Net Earnings.
1856 to 1876	\$1,127,788 02	\$ 426,564 16	\$ 98,656 37	\$ 602,567 49
1877	152,794 68	50,571 46	20,673 36	81,549 86
1878	160,125 70	47,183 44	22,453 91	90,488 35
1879	182,173 33	44,616 59	11,182 61	126,374 13
1880	202,377 92	47,618 76	8,298 13	146,463 03
1881	233,981 71	56,430 19	8,586 07	168,965 45
1882	248,879 06	57,857 47	7,835 56	183,186 03
1883	274,614 15	61,617 58	11,593 24	201,403 33
1884	296,392 60	66,196 41	9,470 48	220,725 71
1885	317,661 06	65,150 73	55,498 35	197,011 98
1886	353,191 85	77,582 32	8,034 44	267,575 09
1887	392,376 49	82,354 76	7,561 35	302,460 38
1888	401,775 40	85,445 92	20,950 10	295,379 38
1889	448,497 62	89,831 40	11,546 56	347,119 66
1890	502,954 11	97,630 45	10,716 26	394,607 40
1891	544,948 19	112,839 37	12,234 39	419,874 43
1892	597,002 45	116,484 01	15,935 02	464,583 42
1893	547,053 04	133,181 89	20,110 15	393,761 00
1894	536,639 35	137,607 41	32,401 75	366,630 19
1895	575,843 78	145,765 59	24,465 15	405,613 04
1896	604,274 00	174,458 72	43,172 81	386,642 47
1897	623,173 22	160,268 84	22,425 38	440,479 00
Totals	\$9,324,517 73	\$2,337,257 47	\$483,799 44	\$6,503,460 82

FOR THE YEAR ENDING DECEMBER 31, 1897.

The following is a statement of receipts in detail from persons for work performed and material furnished, and from other sources, not including water rents, as entered in voucher register of accounts receivable :

From Whom.	For What.	
P. O'Donnell	Repairing Hydrant Valve	\$ 7 25
Cleveland Electric Railway Co.....	Sprinkling Car.....	11 20
Cleveland Electric Railway Co.....	Digging up Box on Broadway.....	2 40
Cleveland Steam Boiler Co.....	Balance on old boilers.....	288 00
M. A. Bradley.....	3-inch connection on St. Clair street.	51 64
Euclid Heights Co.....	4-inch connection on Overlook.....	353 10
Department of Public Works.....	Money advanced.....	16 30
Campbell Brothers.....	Repairing connection 38,244.....	4 55
Stone, Koblitz & Co.....	2-4-inch connection on Cherry alley.	61 08
Dewstoe & Schneider.....	2-inch connection on Huron street...	36 22
American Wire Co.....	2-4-inch Hydrants.....	52 00
Cleveland City Street Railway Co.....	Repairing meter.....	123 56
J. J. Smith Plumbing Co.....	Changing 2-inch connection.....	48 05
J. J. Smith Plumbing Co.....	Ch'ng'g $\frac{5}{8}$ -in. con. to 2-in. con Detr't	42 22
J. J. Smith Plumbing Co.....	3-inch connection Detroit street.....	53 24
Myron T. Herrick	M. H. Ring and Cover Champlain st.	1 54
Cleveland Telephone Co.....	Driving two holes, Broadway.....	7 86
J. A. Smith.....	1-24-inch pipe.....	11 25
W. D. Kearfott.....	Repairing private meter.....	1 56
Jacob Perkins	Repairing private meter.....	6 93
Chafer & Becker	5 gate valves.....	34 50
Brush Electric Co	Labor and material.....	7 74
F. C. Zeigler.....	Stop cock box complete.....	2 25
Theodore Kundtz.....	4-inch connection, Winslow street...	61 03
Champion Spring Bed Co.....	4-inch connection, Seneca street.....	43 87
Cleveland Rolling Mill Co.....	4-inch connection, Broadway..	59 47
Cleveland Frog & Crossing Co.....	4-inch connection, Bessemer avenue.	58 18
Upson Nut Co.....	4-inch connection, Scranton avenue.	76 58
Dewstoe & Schneider.....	2-inch connection, Bond street.....	48 32
C. D. Klock.....	2 3-inch Branches Edgewater Park...	56 11

From Whom.	For What.	
Phillip & Bixley	1 6-inch valve.....	\$ 9 00
G. V. Beebe	Cutting hole Ontario street.....	2 00
Griese Brothers.....	Repairing meter.....	1 00
Glenville Village	Brick vault Wallace street.....	2 92
Spence Brothers.	Repairing and setting meter.....	1 10
Robert Wallers.....	Meter vault.....	9 61
Van Dorn Iron Works.....	Taking out 4-inch hydrant.....	2 76
White Sewing Machine Co.....	Changing meter.....	4 28
Standard Lighting Co.....	Repairing connection Perkins ave...	10 33
Cleveland Electric Railway Co	Repairing hydrants Cedar avenue...	14 87
A. H. Wick.....	2-inch valve Fairmount street.....	10 78
Erie R. R. Co.....	3-inch connection Jennings avenue..	41 03
National Malleable Casting Co.....	4-inch connection E. Madison ave...	67 21
Burt Ames.....	Filling ice rink Dean street.....	7 24
M. F. Bramley.....	Hydrants, valves, etc.....	115 53
Globe Iron Works Co.....	Repairing meter.....	4 92
Kirk Christie Co.....	Repairing meter vault Huron street.	5 61
H. E. Loyd.....	Filling ice rink Detroit street.....	4 88
W. J. Gawne	Blue prints of crib.....	7 00
Riter & Conley	Blue prints of crib.....	7 00
James McClearie	Filling ice rink Franklin avenue....	3 90
General Fire Extinguisher Co.....	4-inch connection Wood street.....	60 99
Pickand Mather Co.....	{ Lease of docks Dec. 1, 1896, to } Dec. 1, 1897.....	600 00
Cleveland City R. R. Co.....	{ Lease of river tunnel August 1, } 1896, to August 1, 1897	100 00
Cleveland Telephone Co.	{ Lease of river tunnel November } 1, 1896, to November 1, 1897. }	200 00
Cleveland Electric Ry. Co.....	Excavating trenches. Cedar avenue..	30 61
Theodore Kundtz.....	2 4-inch connection, Center street...	121 28
Union Passenger Station Association.....	Changing 3-inch connection Front st	60 78
Wadsworth Plumbing Co.....	Material used, Bradley blk. Noble al.	14 04
M. Sacharoff.....	Old barrels	5 15
John Moran.....	4 4-inch hydrants... ..	104 00
Stone & Koblitz	Old brass and lead.....	204 00
L. A. Cobb (Trustee).....	6-inch water pipe Prescott street....	2,418 00
L. A. Cobb (Trustee).....	6-inch water pipe Motley street.....	2,418 00
J. Dyson.....	Repairing meter.....	1 20
L. A. Roberts & Son.....	Repairing meter.....	1 00

From Whom.	For What.	
Union Rolling Mill Co.....	3-inch connection Upton street.....	\$ 61 36
General Fire Extinguisher Co.....	4-inch connection Huron street.....	80 37
Warden & Lease	2-inch connection W. Madison ave...	42 14
Edmonds Elevator Co.....	4-inch connection Prospect street...	75 27
State National Bank....	Stop cock box Atlantic street.....	3 64
Charles Strever	2-inch connection Platt street	14 32
W. H. Gabriel.....	Old hose.....	5 45
John Rickel	Cash refunded last half March 1897..	11 40
W. J. O'Neil.....	Old lawn mower.....	1 10
Louis Helfer.....	Old barrels	9 95
Phillips & Bixel	Hydrants, etc.....	79 50
Department Public Works, Eng. Division.	Moving hydrants Shelburne street...	174 63
Wm. Taylor Sons & Co	4-inch connection Prospect street...	72 28
M. M. Spangler.....	1 2-inch valve.....	4 00
Root, McBride Co.....	Repairing private meter.....	1 00
D. & G. Greise.	Setting meter.....	3 19
Globe Iron Works.....	Setting meter.....	15 56
Cleveland Rolling Mill Co.....	3-inch connection Burke street.....	47 02
St. Alexis Hospital.....	4-inch connection Buettner street...	42 43
E. Cowley	2 8-inch connection Overlook.....	16 82
L. Poplowsky.....	2-inch connection Hanna blk.....	25 79
Spence Brothers.....	Setting meter.....	1 56
East Cleveland Village....	2 4-inch fire hydrants	52 00
C. F. Kuentz	Repairing Main Franklin avenue....	14 94
Theurer, Norton & Co.....	3-inch connection Stock street.....	49 32
Wadsworth Plumbing Co.....	1 valve and cover.....	2 76
D. & G. Greise.....	Setting meter.....	1 00
E. W. Andrews.....	6-inch water pipe Duluth street.....	325 00
G. Lutz.....	Hay from Kinsman street reservoir.	10 00
S. Fuller.....	Hay from Kinsman street reservoir.	6 00
Park Board	{ Laying 16-inch pipe Cable Park } and Hough avenue.....	148 01
Northern Ohio Paving & Con. Co.....	Valves and hydrants.	228 25
Cleveland Iron & Metal Co.....	Scrap iron.....	112 47
Pollock, Kohn & Co.....	Brass, etc.....	226 35
F. V. Faulhaber.....	Iron fence.....	180 00
A. I. Sanger & Harris Brothers.....	Old boilers.....	185 00

From Whom.	For What.	
Theodore Kundtz.....	{ 6-in. and 8-in. water pipe Wins- } { low and Elm..... }	\$ 800 00
Phillips & Bixel.....	1 4-inch hydrant.....	26 00
Warden & Lease.....	Testing meter.....	50
D. & G. Griese.....	Repairing meter.....	2 64
F. A. Wadsworth.....	4-inch connection Superior street....	62 02
W. A. Howe.....	Flushing sewer Ontario street.....	2 44
Geo. Worthington Co.....	2 4-inch hydrant.....	52 00
J. V. O'Donnell & Co.....	Scrap iron	225 00
M. J. O'Donnell & Co.....	4-inch connection Lena avenue....	56 29
L. Poplowsky....	Flushing sewer Ansel avenue.....	3 00
Geo. Worthington Co.....	3 4-inch hydrants.....	78 00
A. J. Smith....	Setting private meter....	1 70
G. A. Hyde.....	Setting private meter.....	15 61
Rev. G. P. Jennings.....	Setting private meter.....	13 84
F. L. Gegeline.....	Repairing leak at meter.....	1 00
E. H. Klaustermeyer.....	Repairing private meter.....	1 00
W. Eyerdam.....	Repairing private meter.....	1 00
Plymouth Church.....	Setting private meter.....	20 50
Euclid Avenue Presbyterian Church.....	Setting private meter.....	14 50
Department of Public Works, Eng. Div...	Moving stop cock boxes, etc	106 15
Thomas Manning.....	1 4-inch washer for hydrant.....	1 50
Watterson & Clague.....	One-half damages horse and wagon..	50 00
M. Sacharoff.....	Old barrels.....	3 25
Total .....	.....	\$12,125 76

SCHEDULE OF PROPERTY

Belonging to the Water Works Division December 31, 1897.

West Side crib and two tunnels.....	\$ 835,500 00
River tunnel at St. Clair street.....	30,400 00
River tunnel at Clark avenue...	9,000 00
River tunnel at Main street	16,000 00
River tunnel at Superior street.....	9,600 00
East Side tunnel and two temporary cribs (unfinished in 1897).....	197,400 00
Division street pumping station grounds, 5½ acres. with aqueducts, etc.....	75,000 00
Engine and boiler houses on Division street.....	353,600 00
Six compound duplex pumping engines and boilers for same, pumping capacity 90,000,000 gallons.....	442,000 00
499 miles and 4,796 feet of water mains of all sizes, 5,712 hydrants and 10,586 stop gates.....	5,388,200 00
Water meters.....	146,900 00
Division street pumping station electric light plant, machine shop, etc.....	4,000 00
Fairmount pumping station, engine house and grounds (1¼ acres), one pair of Cornish engines (8,000,000 gallons), engineer's and fireman's dwelling, etc..	205,400 00
Ridge avenue pumping station grounds.....	4,100 00
Kirtland street pumping station grounds.....	36,000 00
Fairmount reservoir and grounds (20 acres).....	401,100 00
Kinsman Reservoir and grounds (18 acres'.....	142,700 00
Kinsman reservoir keeper's dwelling.....	1,200 00
Office furniture, engineering instruments, books, etc.....	7,000 00
Office store room, tools, pipe, specials, valves, hydrants, etc.....	8,000 00
Division street pumping station yard, coal, pipe, specials, etc.....	9,000 00
Fairmount pumping station yard, tool house, tools, pipe, specials, etc.....	3,500 00
Kinsman reservoir yard, tools, pipe, specials, etc.....	200 00
Pelton avenue yard, pipe, specials, etc.....	2,700 00
Ridge avenue pumping station grounds, pipe, specials, etc... ..	1,300 00
Total	\$8,329,800 00

LAKE CRIB—WEST SIDE TUNNELS.

An examination was made of the timber walls of this crib from the floor line down to the water line, and the walls were found to be in fairly good condition with the exception of the middle walls where they intersect at the southeast corner. These were found to be badly decayed, and eleven courses from the floor line were cut out and rebuilt with new material. The heads of timber ties in several cases were also found badly decayed on three sides of the crib. To strengthen the crib at these points 12x12 inch timbers were placed vertically on the inside of middle walls, and these timbers were connected to the outer wall by means of tie rods to counteract the tendency of these walls to spread. Five 12x12 inch timbers were placed vertically on the inner face of the outside wall and fastened with screw bolts near southeast corner of crib. In order to do all this work the stone had to be removed from the pockets of the crib and afterwards replaced. Heavy iron bands were placed around the masonry wall surrounding the well of the crib below the floor. Some bolts in the flanges of the lower ice plates are loose and should be replaced at as early a date as possible.

WEST SIDE LAKE TUNNELS.

The supply of water through these tunnels has been uninterrupted, and we have had no trouble from anchor ice or any other cause.

MAIN STREET TUNNEL.

This tunnel was completed March 31, ready for the 48-inch steel pipe, which was made by the Variety Iron Works. The final test of this pipe was made July 8 and was found satisfactory and ready for acceptance.

SUPERIOR STREET TUNNEL.

The contract for this tunnel and two shafts, made with L. H. Fahey for \$14,650, was approved by the Council August 30, 1897. This tunnel is 8 feet in diameter, and is being built from a shaft in West River street 170 feet south of Washington street to a shaft in Superior street near the river, a distance of 575 feet between centers of shafts.

Work was begun on the west shaft September 13, 1897. This shaft and 500 feet of tunnel were completed December 31, 1897. December 13, 1897, work on the east shaft was begun and about 30 feet of this shaft were sunk December 31. From present indications this shaft and tunnel will be ready for the pipe about January 20, 1898. A contract for building and placing a 48-inch steel riveted pipe in this tunnel was made with the River Machine and Boiler Co. for \$13,316, and was approved by the Council November 15, 1897.

EAST SIDE LAKE TUNNELS AND CRIBS.

Temporary crib No. 1, located about 11,600 feet from shore shaft, and which was built by The L. P. & J. A. Smith Co., was taken out and placed in position in Lake Erie and sunk on May 27, 1897. The crib was held in exact position by five lines, one from each corner, leading to anchors placed about 300 feet from the crib. The gates provided for letting the water into the crib to sink it were opened at 9 A.M., and the crib was resting on the bottom at 9:45 A.M. The depth of water at this point is about 43 feet.

After the crib had been filled with stone and the rip rap stone placed around it, elevations of the five corners were taken, and it was found that the crib was only four inches out of level.

The crib and superstructure were practically completed August 28 so that the tunnel contractor began work on this day placing girders across the well to support the iron cylinders of shaft No. 2, preparatory to sinking them.

CRIB No. 2.

The contract for temporary crib No. 2, which is practically a duplicate of crib No. 1, was made with T. H. Garland for \$33,592.48 for the crib complete and filled with stone and for furnishing the rip rap stone for \$1.97½ per ton.

Work was commenced about March 12, 1897, and on May 27 twelve courses of timber had been completed and the crib was launched. On June 18 about sixteen courses were completed, and on June 20 the crib sank inside the west breakwater. The sinking of the crib was caused by the loading of stone and not taking the proper precaution to keep the water out.

Openings had been cut in the sides of the crib in which valves were to be placed to be used in letting in the water when the crib was to be taken out and sunk in the lake. The contractor had neglected to put in these gates and had loaded it down so deep that the water came in through these openings. In the twenty-four days between the launching and sinking only four courses had been added to the crib.

Owing to the slow progress and the sinking of the same the contract was taken away from the contractor and the work given to the bondsmen to complete. The crib was raised July 25 and work was resumed the following day. In forty days thirty-nine courses were added, which was all that was built before the crib was taken out and sunk in position. On September 8 the crib was taken out and placed in position, about 7,200 feet westerly of crib No. 1, being held in place by lines and anchors in the same manner as was done with crib No. 1 when that was sunk. The gates for filling the crib with water were opened at 9:30 A. M. and by 10 A. M. the crib had sunk to the bottom and was then filled with filling stone and rip rap stone placed around it. It was then found that the crib was ten inches out of level, The crib was then leveled up and the remaining courses completed and the superstructure built, completed, and accepted on December 14, 1897.

STEEL CRIB.

The contract for this crib was approved by the Council December 21, 1896, and the construction was begun about April 1. The timber bottom and two courses of the steel work were completed and the crib was launched and towed in behind the west breakwater on June 16. According to the terms of the contract the crib should have been completed within six months, or by October 1, 1897, at the latest. Since the launching the work has been carried on very slowly, and as it was seen that the crib could not be completed this year, the contractor on November 17 brought the crib into the Pennsylvania Co.'s slip in the Old River Bed. At the end of the year seven courses of the steel sections had been assembled, ten of the twelve inlet tubes were all riveted, the outside shell was all caulked up to the top of the sixth course and the inside course was caulked up to the top of the fifth course.

This leaves three courses to be added and all the bulkhead seams to be caulked before the crib will be ready to place in position in Lake Erie. This shows that there is considerable work still to be done before the crib is ready to take out, and the work should be pushed with all possible dispatch so that they shall be able to take it out not later than May 1, 1898.

EAST SIDE TUNNEL.

On December 31, 1896, 77 feet of tunnel had been completed from shaft No. 1 westerly. On January 4, 1897, after 110 feet of tunnel had been completed, a bulkhead was built across the end of the tunnel and work was stopped in order to remove the airlock in shaft No. 1 and place one in the tunnel, and also to put an elevator in the shaft. Work was resumed on January 25, and was then pushed without interruption until 3,764 feet had been completed. A bulkhead was then built across the end and the air pressure let out. The airlock was then changed from its first position about 72 feet west of the shaft to about 3,700 feet west of the shaft. Work was again resumed on November 8 and on December 31, 1897, 4,584 feet were completed, making a gain of 4,507 feet in the tunnel built from this one heading during the year 1897.

EXTENSION OF TUNNEL FROM SHAFT No. 2.

On September 17 the contractor started sinking the cylinders at shaft No. 2. It was originally planned to sink eight cast iron cylinders and one steel cylinder, each nine feet long, and build the lower end of masonry; but as the clay was found rather soft the contractor was allowed to put in two more steel cylinders, about nine feet each, in lieu of brick masonry; and after placing these two steel cylinders and sinking the shaft 18 feet further, it was found necessary to place an air lock in this shaft in order to complete it. At the end of the year 139 feet of tunnel had been completed toward the east and bulkheaded and about 100 feet were completed toward the west, making in all about 200 feet completed from this shaft. It is the intention to build about 40 feet more to the west and then let off the air pressure and remove the airlock from the shaft and put an airlock in each heading

from the shaft and also place an elevator in the shaft. Their rate of progress has been about ten feet per day, but as soon as the airlocks and elevator are in place they will no doubt complete fifteen feet and may build eighteen feet per day in each heading.

The contractor has placed a boiler and cast iron cylinders for shaft No. 3 and a quantity of brick and sand on crib No. 2, ready for the building of the tunnel from the shaft in this crib.

DIVISION STREET PUMPING STATION.

The new engine and boiler house on the foundation erected by Messrs. Watterson & Clague was built by D. & G. Griesse for the contract price of \$21,741. The foundation and superstructure are practically complete, with the exception of a few minor details, and is now ready for the reception of the engine and boilers. The Edward P. Allis Co., who have the contract for the engine, have laid a temporary track from the Water Works switch to the engine house door and erected a derrick for the unloading of their machinery, and have several carloads of machinery here.

A contract was made with The Ohio Heating Co. for six Geary water tube boilers of 200 H.-P. each, equipped with the Brightman mechanical stoker, to be placed in this boiler house, the contract price being \$22,760 and was approved by the Council _____

A contract was also entered into with The Cleveland Steam Boiler Works for five tubular boilers to be placed in the north building of this station, in place of three marine boilers which were removed. The contract price was \$3,268, and was approved by the Council March 22, 1897. These boilers were equipped with the Brightman mechanical stoker made by The Brightman Furnace & Mechanical Stoker Co. The contract for these stokers and setting complete was \$4,762. In order to put in these boilers the foundation and smoke flue had to be changed, for which a contract was entered into with Hunkin Bros. for the sum of \$3,566, and approved by the Council March 22, 1897. All of this work has been completed.

Considerable grading has been done in the south lot of the Division street pumping station, and 80 feet of retaining wall

have been built south of the new building. This wall will be extended early in the spring, and when the new engine is up and the new water main laid for this engine the grounds will then be put in proper shape in front of both buildings. It is also proposed to lay a new sidewalk on the north side of Division street, in front of the Water Works property, and to pave a roadway in the south lot leading from Division street around to the south side of the new boiler house. For a more detailed statement of the work done at this station see appended report of Mr. Botten, the Chief Engineer of this station.

FAIRMOUNT PUMPING STATION.

The building and machinery are both in good condition. The only repair of any note has been the replacing of a cracked cover on the pump chamber of the west engine, which was replaced by a new one. The increased consumption of water in the High Service district has been such that at two different periods we have had to pump 24 hours per day. This, no doubt, will keep increasing as the additional territory on the west side of the river will increase the consumption of the water materially, and we shall, no doubt, have to put on three shifts of men so as to be able to pump the full 24 hours.

FAIRMOUNT RESERVOIR.

This reservoir is in good condition, and we have not been called upon to make any repairs during the year.

KINSMAN RESERVOIR.

A fence has been built on the north boundary line of the reservoir grounds. Early in May a slip occurred in the outer slope at the south end of the west embankment of this reservoir. During the construction of this reservoir the contractor had a roadway at this corner, used for hauling earth to the top of the embankment. This portion of the embankment was probably more compact than the other portions of the embankment, and, owing to uneven settlement, it caused a crack, which allowed storm water to work in and cause a slip, the embankment being

made wholly of clay. This was repaired by cutting offsets in the embankment and then retamping the clay back into place, and also driving long cedar posts nearly perpendicular to the slope all along the bank where it showed signs of slipping. No further repairs were found necessary.

PIPE EXTENSION.

The total amount of pipe laid during the year is 19 miles 4,502 feet
 Pipe taken out and abandoned during the
 year is..... 1 mile 4,372 feet

Leaving a net gain of..... 18 miles 130 feet

There were 148 feet of 48-inch riveted steel pipe laid in Spruce street crossing Sycamore slip, and 739 feet of 48-inch riveted steel pipe were laid in Main street tunnel, extending from West River street to East River street.

We have also laid 4,280 feet of 42-inch pipe in Alabama street, Hamilton, Main, Spruce and West River streets, closing up all gaps in the 42-inch line of pipe, which now extends from the Division street pumping station to Hamilton and Case avenues.

We also laid 2,157 feet of 36-inch pipe in Ridge avenue, from Clark avenue to Berry street.

There were also laid 242 feet of 30-inch steel pipe across the river in Dennison avenue extension, and 52 feet of 30-inch cast iron pipe were laid south from the 30 inch steel pipe to connect to pipe already laid, and 107 feet of 24-inch pipe were laid north from this steel pipe to connect with the 24-inch pipe previously laid. This makes a continuous main from the corner of Marcel-line avenue and Harvard street, through Harvard street and Dennison avenue to Ridge avenue.

On December 17, we began to turn water on to this line of pipe, and will soon be ready to supply the High Service district of the West Side.

We laid 2,017 feet of 16-inch pipe in Independence, between Fleet and Sykora streets, and 2,145 feet of 16-inch pipe were laid in Pearl street, from Dover to Dennison avenue. The accompanying tables give a detailed report of all pipes laid during the year 1897.

The total mileage of pipe in the city is now :

In low service district..... 431 miles 3,987 feet

In high service district..... 68 miles 809 feet

Total..... 499 miles 4,796 feet

Pipe lowered during 1897 was. 1 mile 1,877 feet

Service connections lowered

during 1897..... 0 mile 3,132 feet

Number of feet of pipe recaulked..... 2,046 feet

Number of feet of pipe moved..... 1,211 feet

The increased number of stop gates set in 1897 was :

In low service district..... 238

In high service district..... 178

Total increase in 1897..... 416

In use prior to 1897..... 10,170

Total in use December 31, 1897..... 10,586

FIRE HYDRANTS.

The increased number of fire hydrants set in 1897 is as follows :

In low service district..... 122

In high service district..... 110

Total in 1897..... 232

Total in use previous to 1897..... 5,480

Total in use December 31, 1897..... 5,712

The accompanying tables show the size and location of all pipe laid and of all stop-gates and hydrants set during the year:

SERVICE PIPES.

Size in Inches.	Total Connections Made to December 31, 1896.	Connections Abandoned or Changed to Other Sizes in 1897.	Total.	Abandoned Connections Re-issued or Enlarged in 1897.	Connections Made in 1897.	Total Connections December 31, 1897.
½	3,161	.....	3,161	.....	296	3,457
¾	47,526	62	47,464	1	1,969	49,434
¾	1,270	6	1,264	3	18	1,285
1	394	1	393	7	31	431
1¼	57	.....	57	.....	.....	57
1½	144	.....	144	17	.....	161
2	325	.....	325	15	.....	340
2½	4	.....	4	.....	.....	4
3	189	.....	189	8	.....	197
4	350	.....	350	17	.....	367
6	20	.....	20	.....	.....	20
8	4	.....	4	.....	.....	4
10	.....	.....	.....	1	.....	1
12	2	.....	2	.....	.....	2
Totals ...	53,446	69	53,377	69	2,314	55,700

Extended connections not in use.....	1,195
Curb connections.....	6,358
Total connections not in use.....	7,553
Total connections issued.....	55,760
Connections not in use.....	7,553
Connections in use December 31, 1897.....	48,207
Connections in use December 31, 1896.....	46,389
Increase.....	1,818

METERS.

The quantity of water supplied by meter measure was about 4,302,334,000 gallons, equal to an average of 11,787,000 gallons per day.

The total number of meters and other devices for measuring water in use December 31, 1897, is shown in the following tables:

RECAPITULATION OF METERS—1897.

Size in Inches.	$\frac{3}{8}$	$\frac{1}{2}$	1	$1\frac{1}{2}$	2	3	4	6	Totals.
In use December 31, 1896	4	893	417	235	203	110	84	1	1,947
Set in 1897.....	.....	111	57	38	25	9	4	2	246
Totals	4	1,004	474	273	228	119	88	3	2,193
Taken out in 1897.....	4	80	30	12	17	2	1	1	147
In use December 31, 1897 .....	.....	924	444	261	211	117	87	2	2,046

Size and kind of meters in use December 31, 1897.

Size in Inches.	$\frac{3}{8}$	$\frac{1}{2}$	1	$1\frac{1}{2}$	2	3	4	6	Totals.
Worthington	907	441	258	204	113	78	.....	2,001
Hersey and Hersey Disc.....	15	1	2	4	3	4	2	31
Crown	2	1	.....	.....	1	3	.....	7
Empire	1	.....	.....	.....	.....	.....	1
Lambert.....	1	2	.....	.....	.....	3
Torrent.....	1	.....	1
Thomson.	1	.....	1	.....	2
Totals	924	444	261	211	117	87	2	2,046

PRIVATE METERS.

Size in Inches.	½	¾	1	1¼	2	3	4	6	Totals.
In use December 31, 1896	42	95	29	13	16	2	13	1	211
Set in 1897.....	.....	13	6	2	5	1	.....	.....	27
Totals	42	108	35	15	21	3	13	1	238
Taken out in 1897.....	2	1	.....	.....	.....	.....	.....	.....	3
In use December 31, 1897	*40	†107	‡35	§15	¶21	§3	**13	*1	235

* All Worthington.
† 95 Worthington, 1 Thomson, 4 Union, 4 Hersey and Hersey Disc, 3 Lambert.
‡ 34 Worthington, 1 Lambert.
§ 12 Worthington, 2 Hersey Disc, 1 Lambert.
¶ 16 Worthington, 1 Union, 4 Hersey and Hersey Disc.
§ 2 Worthington, 1 Torrent.
** 11 Worthington, 1 Crown, 1 Hersey.

Elevators in use December 31, 1896.....	186	
Put in in 1897..	4	
Total	190	
Taken out in 1897.....	2	
In use December 31, 1897.....	188	188
Organ motors in use December 31, 1896.....	11	
Replaced with meters in 1897.....	6	
In use December 31, 1897....	5	5
Total of all registering devices in use December 31, 1897.....	2,474	

There are also 37 re registering meters now on our books.

DISTRIBUTION.

The total quantity of water pumped at the Division Street Pumping Station during the past year was 17,658,470,308 gallons equal to a daily average of 48,379,371 gallons; making an average increase of 2,749,496 gallons per day or an increase in the pumpage of water over the year 1896 of 5.74 per cent.

HIGH SERVICE DISTRIBUTION.

The amount of water pumped at the High Service Pumping Station during the past year was 994,730,850 gallons equal to an average of 2,725,290 gallons or an increase of 15 per cent. over the year previous.

COLLECTIONS.

Total amount collected for water in 1897	
was.....	\$632,123 18
Less returned water rents amounting to...	8,949 96
	<hr/>
Making net receipts for water.....	\$623,173 22
Net receipts for water in 1896.....	604,274 00
	<hr/>
Increase over the year 1896.....	\$ 18,899 22

The collections for water by meter measure were \$229,457.83.

MISCELLANEOUS.

On August 7th the 36-inch water main in St. Clair street between Bank and Water streets broke, causing considerable damage to the pavement and flooded some cellars.

On October 8th another break occurred on the same main between Wood and Bank streets also causing considerable damage to pavement.

There have been several breaks in this line in previous years, and in order to satisfy ourselves whether the cause lay in the material of the pipe or elsewhere, we had test pieces cut from the pipe that broke between Wood and Bond streets. These pieces were tested both for transverse and tensile strength.

The piece that was tested for transverse strength was made one inch thick, 2 inches wide and 26 inches long and placed on supports 24 inches apart; this bar broke under a load of 2,300 pounds with a deflection of .51 inch. The piece tested for ultimate tensile strength broke under a stress of 22,060 pounds per square inch.

These tests show that the metal in this pipe was better than required by our specifications, which call for a transverse strength of not less than 1,900 pounds, and a deflection of not less than 25-100 inch in a test piece of the size above described and a tensile strength of not less than 18,000 pounds per square inch.

A chemical test was also made of this metal by one of the City's Chemists and pronounced to be of a good quality.

At neither of these breaks could any flaw be found in the pipe, and they can be accounted for only on the theory that there has been a gradual settlement in the street being an after effect of the construction of a large sewer through this street, and that this settlement has caused severe strains in the main at different points until it finally broke.

On December 25th a break occurred in the 24-inch main in Willson avenue just south of Central avenue. The break was about 5 or 6 feet long and about 18 inches wide at its widest part. There was no flaw in this pipe, the shell of the pipe was of the required thickness, but the metal was found to be quite hard.

ELECTROLYSIS.

There have been twenty-four leaks in service connections during the year caused by electrolysis, two of them on Euclid avenue near Willson avenue, and twenty-two on Cedar avenue between Willson avenue and Stearns street. There was also one case found where the main water pipe in Cedar avenue had been attacked and small holes eaten into it.

There have been several connections made, at different points in the city, between the street railways' return wires and rails and our water pipes in order to obviate electrolysis of our mains and the service connections.

The great number of leaks found on one street, and the attacking of our main in one instance shows that the return currents in this section especially have not been taken care of properly. This is a very serious matter, and should at once be thoroughly investigated and means found to remedy the matter.

In consulting with the city electrician as to the best method of procedure he stated that the proper instruments should be procured and that a complete examination of the pipe system in various locations be made, in order to determine what should be done to prevent further trouble from this source and fix the responsibility therefor.

FUTURE EXTENSIONS AND RECOMMENDATIONS.

In order to be ready for the new East Side pumping station when it shall be completed, it has been decided to lay a 48-inch main in Coe street, Hamilton street and Case avenue from Lake street to Central avenue, and a 42-inch main in Case avenue from Central to Scovill avenue, a distance of about 13,000 feet. This will make a complete connection with all of the large mains of the East Side of the city.

Plans are now being made for a new pumping station at Kirtland street, including engine and boiler houses, to be equipped with engines and boilers, also aqueducts, pump wells, sewers, etc.

That portion of the west side of the city lying above 120 feet elevation will be supplied with water from the high service system early this year. This will call for a decided increase in the pumpage at the Fairmount pumping station, and it may become necessary to take steps before the end of the year for the erection of a high service pumping station on the Ridge avenue grounds purchased for this purpose some years ago.

THE ESTIMATED EXPENDITURES FOR THE YEAR 1898 ARE AS FOLLOWS:

Operating expenses, meters, etc.....	\$	200,000	00
General repairs, mains and pumping stations....		30,000	00
Contingent expn's and miscellaneous construct'n.		15,000	00

Interest.....	\$	91,000 00
Main and distributing pipe.....		270,000 00
Balance on Superior St. tunnel, and pipe for same.		19,500 00
Steel inlet protection crib.....		140,000 00
Balance on two temporary cribs.....		10,000 00
East Side tunnel (contract price \$524,190.00)....		327,000 00
New 20,000,000 gallon pumping engine at Division street pumping station—balance.....		54,000 00
Six Geary boilers, mechanical stokers, pipe fittings, and mechanical stokers for north building Division street pumping station, and portable boiler and pump.....		40,000 00
Moving boiler house front, middle building of south boiler houses; balance due on new engine and boiler house; retaining wall, grading, curbing, paving and flagging, all at Division street pumping station.....		19,000 00
Kirtland street pumping station, engine and boiler house, including aqueduct, pump wells, etc.		100,000 00
Partial payment on two pumping engines for Kirtland street station.....		20,000 00
Refunding money advanced for pipe extension..		10,000 00
Total.....	\$	1,345,500 00
Cash on hand January 1, 1898.....	\$	140,045 66
Estimated receipts for 1898.....		670,000 00
		<u>810,045 66</u>
Unprovided for.....	\$	535,454 34

In conclusion I desire to call your attention to the same cramped quarters for office room, and would respectfully urge the necessity for providing more room for the use of this Division.

Respectfully submitted,

M. W. KINGSLEY,

Superintendent.

January 14, 1898.

REPORT OF ENGINEER

OF

PUMPING DEPARTMENT.

Report of Engineer of Pumping Department.

To the Superintendent of Cleveland Water Works :

DEAR SIR: The Engineer of the West Side Pumping Station of the Cleveland Water Works would respectfully submit the following annual report for the year 1897.

WORTHINGTON ENGINE No. 1.

This engine is still held in reserve, it has only pumped a little over fifty-one million gallons the past year, and it is in about the same condition that it was a year ago.

The water valve seats are in bad condition, which causes a large per cent. of the water to rush back every stroke instead of being forced into the mains, which is quite a loss. The material to make this change would cost about \$1,025. Otherwise this machine is in working order and ready to start at any time.

WORTHINGTON ENGINE No. 2.

This machine pumped 3,198,215,440 gallons of water the past year and with very little trouble and expense. When I wrote the last report this engine was idle on account of the four new tubular boilers not being finished; but they were completed and the engine started January 22nd. August 16th it was stopped a few hours to do some packing. October 16th it was stopped to replace a broken pin in an air pump working beam, and was stopped again on November 17th to overhaul the air pumps and do some other trifling repairs and started on the 26th. December 24th it forced a discharge valve seat out which was replaced. This caused it to stop about four hours. This machine is running every day and doing well.

WORTHINGTON ENGINE No. 3.

This engine has worked well since the repairs it received last spring. On March 17th it was stopped to replace two water valves, and on the 24th it was stopped for a general overhauling. It received brass water valve seats and stems; also new valve weights, new steam valve stems and three foot valves in the air pumps; also brass stems and guards in the air pump trunks. It also received new valves in the 30-inch check valve new diaphragm and valves in the suction pipe.

This work was completed and the engine run a few hours on May 15th, and on the 22nd it was started for continuous work. July 6th it was stopped a day to connect its steam pipe to the new main steam line. October 25th it was stopped two hours to do some packing and again Nov. 5th to replace two broken trays in the condenser with new ones and overhaul the air pumps. This was completed and the engine started on the 17th. Since that it has continued to run without interruption.

WORTHINGTON HIGH DUTY ENGINE No. 4.

This engine has been in almost constant service for four years, and it requires considerable attention now to keep it in running order. It was stopped 15 times during the past year on account of broken water valves, leaky joints and gland. About the first of the year we discovered a small crack in each of the water cylinders, which constantly increased in length. This we repaired by bolting a cast iron patch over each of them, and strengthening it with two $1\frac{3}{4}$ -inch bolts, extending from top to bottom to hold the cracks together, but we did not succeed in stopping the leak entirely. We have not had any opportunity to bore the air pump cylinders out and line them with brass, as we contemplated doing; but this must be done as soon as convenient, and some of the lagging should be removed and put up in a more substantial manner. This machine has pumped 5,662,642,-480 gallons of water the past year and it is running every day.

KNOWLES ENGINE No. 1.

This machine has done well the past year. It was stopped April 23d to change the steam pipe, to conform with the new

main steam line over the boilers; and on Saturday the 24th at 7:30 p. m. it broke the piston rod of the independent condensing engine. This was replaced with a new one, and the engine started Sunday evening. Aside from this it was only stopped four or five times to do some packing, repair leaky joints and four times for broken water valves. To make this machine all right the cast iron water valve seats should be replaced with brass ones, which would cost about \$1,200 for the material to make this change. This engine is in working order and running every day.

KNOWLES ENGINE No. 2.

We never had an opportunity to lower this machine as we contemplated doing. Consequently it has only been used in emergencies. The water end of this machine received an overhauling the past year; some leaks about the steam chest were repaired and some packing done. It has only pumped a little over 746,000,000 gallons the past year; but it is ready to start at any time that it is wanted.

BOILER FEED PUMPS.

Our feed pumps have made very little trouble or expense the past year. The Cameron pump received new packing rings in the steam cylinder and some metal water valves were replaced with rubber. This was all the work required, aside from the usual amount of packing. We still hold one Cameron in reserve in the basement, and they are all in good working order.

SMOKE PREVENTERS.

We have had no trouble or expense to speak of with the Murphy or Brightman devices; but the Playfords and Americans have made considerable trouble and expense, as the design and construction of these devices are not calculated for durability.

BOILERS.

We have twenty-six tubular boilers in service at the works now. Thirteen of these are new, seven are four years and six are ten years old. The repairs on the old boilers amounted to about

\$350.00 the past year, and I expect we will have to remove the flues, piece them out and reset them in some of the old boilers soon. The four new tubular boilers that were being erected in the north fireroom the first of the year were completed and working January 22, and on the 27th an evaporative test was made which proved satisfactory. March 24 we started to remove the remaining three marine boilers to make room for five new tubular boilers, and we had them out in the yard on the evening of April 1, 1897. The excavating was completed and the overhead flue finished May 22. This enabled us to use the three hand-fired boilers. On the 27th the five boilers were in place on blocking and tested ready for the brick work, which was completed and the boilers fired up July 13, and on October 15 an evaporative test was made, which proved satisfactory. After using these boilers about six months the arches began to fall down, which goes to show that the walls were not built in a proper manner. I would like to have permission to remove the Playford smoke preventing device, and replace it with some more practical device and also to raise the flue at the back of these boilers to the same elevation as the others. And the north wall of this fireroom should be moved back about fifteen feet to make more room for coal. We should have four new boilers on the foundations prepared for them in the south fireroom, as we needed them badly two or three times last summer when the American stokers were broken down. Our boilers are all in working order now.

MISCELLANEOUS.

In the month of February several of the Case School boys were down here making tests on the different smoke preventing devices, and March 4 they made a duty trial of the high duty engine. They had permission to do this in order to give them a little practice in this branch of their studies.

All the main steam and water pipe in connection with the boilers have been remodeled and put up in first-class shape, and brick flues at the rear of the boilers have been raised so as to discharge the gases into the stacks overhead. This affords us a good location for our water pipe.

In July the old tin roof was replaced with slate on the north building, the slate repaired on the two wings, the down spouts

repaired, and in the fall the south house received two coats of paint on the outside.

The shop engine and dynamo have made very little trouble or expense. The friction gear on the line shaft gave out in October. It was repaired and has worked all right since.

In October a new fence was built across the rear end of the north lot to give us more room to store spare castings. This is completed and the fence received one coat of paint.

Last year I spoke of the rails being too light on the sharp curve coming into the north lot. There has been nothing done with it and I see now that the fence is moved that a change could be made in the curve so as to give us one car length on the other track beyond the corner of the fireroom which would be quite an advantage.

In the fall the fence on the east and west line of the south lot was rebuilt, using some of the old material. An open ditch was made along the east, west and south lines of the south lot and paved with stone to convey the spring and surface water from the hill to the river.

A 24-inch sewer was laid along the east line of the north and south lots and across the new engine and boiler houses, to take care of the waste water from these buildings; the bank has been cut away on the south side of the new buildings, and a retaining wall built about 40 feet from the buildings, which is not quite completed.

The aqueduct is completed that connects the well in the new engine house with the shaft in the south lot, and the engine and boiler houses are completed, ready for the engine and boilers to be erected, which will undoubtedly be done this winter.

Respectfully submitted,

HENRY BOTTEN,

Engineer in Charge.

SCHEDULE

Showing the gallons of water pumped and coal consumed in pumping, percentage of coal consumed and water pumped by each engine. Contract price of coal and cost of coal for raising one million (1,000,000) gallons into reservoir.

Year 1897.	Engine.	Number.	Water Pumped by the Different Engines.	Pounds of Coal Consumed by the Different Engines.	Per Cent. of Water Pumped by the Different Engines.	Per Cent. of Coal Consumed by the Different Engines.	Coal Consumed by the Different Engines Pumping 1,000,000 Gallons into Reservoir.	Per Cent. of Coal Consumed by the Different Engines Pump'g 1,000,000 Gals. into Reservoir.	Contract Price of Coal.	Cost of Coal for Pumping 1,000,- 000 Gallons into Reservoir.
.....	Worthington	1	51,061,520	209,200	.289	.336	4,097	18.384		\$2 52
.....	Worthington	2	3,198,215,440	12,889,950	18.111	20.712	4,030	18.083		2 48
.....	Worthington	3	2,820,914,440	10,909,950	15.975	17.531	3,863	17.356	\$1 23	2 38
.....	Worthington	4	5,662,642,480	15,462,850	32.068	24.846	2,731	12.254	\$1	1 67
.....	Knowles.....	1	5,179,619,824	20,002,850	29.332	32.142	3,802	17.329		2 37
.....	Knowles.....	2	746,016,604	2,758,650	4.225	4.433	3,698	16.594		2 27
Total	and averages.	..	17,658,470,308	62,233,450	100.000	100.000	3,524	100.000	\$1 23	\$2 18

WORTHINGTON DUPLEX ENGINE No. 1.—RECORD FOR 1897.

WATER WORKS.

347

Months.	Days.	Pumping.			Coal Consumed.			Gallons of Water Pumped.	Height in Feet and Decimals.	Duty.
		Hrs.	Min.	Strokes.	Raising Steam.	Pumping.	Total.			
January.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
February.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
March.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
April.....	5	69	25	52,600	6,000	126,200	132,200	32,612,000	193.687	39,967,243
May.....	1	1	15	916	.....	2,200	2,200	667,920	195.810	42,282,103
June.....	1	2	.....	1,544	.....	3,700	3,700	957,289	203.990	44,147,216
July.....	3	34	50	27,136	6,000	65,100	71,100	16,824,320	199.945	39,576,359
August.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
September.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
October.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
November.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
December.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total and averages.....	10	107	30	82,196	12,000	197,200	209,200	51,061,520	198.358	40,419,220

WORTHINGTON DUPLEX ENGINE No. 2.—RECORD FOR 1897.

Months.	Days.	Pumping.			Coal Consumed.			Gallons of Water Pumped.	Height in Feet and Decimals.	Duty.
		Hrs.	Min.	Strokes.	Raising Steam.	Pumping.	Total.			
January.....	10	227	.....	159,318	3,000	395,700	398,700	98,157,160	201.554	41,507,337
February.....	28	672	.....	407,341	.....	1,018,650	1,018,650	252,551,420	191.989	39,816,065
March.....	31	744	.....	439,474	.....	1,098,000	1,098,000	272,473,880	190.080	39,452,149
April	30	720	.....	468,855	.....	1,169,900	1,169,900	290,690,100	191.567	39,816,169
May.....	30	707	.....	465,667	3,000	1,155,750	1,158,750	288,713,540	194.439	40,521,552
June	30	720	.....	473,207	.....	1,182,550	1,182,550	283,388,340	197.774	41,044,054
July.....	31	744	.....	546,973	.....	1,366,050	1,366,050	339,123,260	198.600	41,240,870
August ...	31	744	.....	508,579	.....	1,271,100	1,271,100	315,318,980	197.604	41,010,188
September.....	30	720	.....	488,831	.....	1,221,800	1,221,800	303,075,220	200.831	41,671,428
October.....	31	744	.....	473,724	.....	1,184,050	1,184,050	293,708,880	198.581	41,204,255
November	22	498	20	289,879	4,000	674,400	678,400	167,324,980	195.433	40,320,890
December.....	31	740	.....	457,564	.....	1,142,000	1,142,000	283,659,680	195.991	40,725,932
Total and averages.....	335	7,980	20	5,158,412	10,000	12,879,950	12,889,950	3,198,215,440	196.202	40,720,901

WORTHINGTON DUPLEX ENGINE No. 3—RECORD FOR 1897.

Months.	Days in Month.	Pumping.			Coal Consumed.			Gallons of Water Pumped.	Height in Feet and Decimals.	Duty.
		Hrs.	Min.	Strokes.	Raising Steam.	Pumping.	Total.			
January	31	743	.....	513,658	.....	1,231,100	1,231,100	318,467,960	184.641	42,117,649
February	28	669	.....	393,236	.....	943,450	943,450	243,806,320	191.969	41,501,113
March	24	542	.....	309,201	.....	741,700	741,700	191,704,620	190.035	41,066,165
April .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
May	9	182	45	118,514	3,000	234,250	287,250	73,478,680	192.390	41,153,379
June	30	720	.....	488,927	.....	1,161,550	1,161,550	303,134,740	197.774	43,174,233
July	31	718	.....	538,610	.....	1,292,150	1,292,150	333,938,200	198.605	42,933,957
August	31	744	.....	510,561	.....	1,224,800	1,224,800	316,547,820	197.604	42,719,611
September	30	720	.....	496,513	.....	1,191,550	1,191,550	307,638,060	200.831	43,400,870
October	31	740	30	476,810	.....	1,143,900	1,143,900	285,622,200	198.581	42,928,356
November	19	432	.....	236,880	4,000	568,400	572,400	146,865,600	193.847	41,604,163
December	31	744	.....	466,952	.....	1,120,100	1,120,100	239,510,240	195.991	42,374,106
Totals and averages	295	6,955	15	4,549,862	7,000	10,902,950	10,909,950	2,820,914,440	195.657	42,317,473

DEPARTMENT OF PUBLIC WORKS.

WORTHINGTON DUPLEX ENGINE No. 4—RECORD FOR 1897.

Months.	Days.	Pumping.			Coal Consumed.			Gallons of Water Pumped.	Height in Feet and Decimals.	Duty.
		Hrs.	Min.	Strokes.	Raising Steam.	Pumping.	Total.			
January.....	31	744	.....	607,383	.....	1,457,250	1,457,250	534,497,040	195.339	59,434,702
February.....	28	683	30	475,714	.....	1,151,300	1,151,300	418,623,320	192.735	58,135,448
March.....	31	744	.....	547,971	.....	1,314,550	1,314,550	482,214,480	190.713	58,034,124
April.....	30	712	15	575,684	.....	1,381,300	1,381,300	506,601,920	192.274	58,497,747
May.....	31	729	15	573,285	.....	1,375,600	1,375,600	504,490,800	194.937	59,305,565
June.....	30	699	45	552,057	.....	1,325,400	1,325,400	485,810,160	198.523	60,363,970
July.....	31	734	15	620,913	.....	1,489,800	1,489,800	546,403,440	199.123	60,582,481
August.....	23	5 0	40	424,978	3,000	1,020,650	1,023,650	373,980,640	199.076	60,333,259
September.....	30	715	30	601,846	.....	1,444,050	1,444,050	529,624,480	201.561	61,324,307
October.....	31	742	.....	579,872	.....	1,391,350	1,394,350	510,287,360	199.328	60,513,423
November.....	30	714	.....	499,464	.....	1,198,300	1,198,300	439,528,320	195.289	59,420,905
December.....	21	487	15	375,654	6,000	901,300	907,300	330,575,520	197.300	59,633,043
Totals and averages.....	347	8,206	25	6,434,821	9,000	15,453,850	15,462,850	5,662,642,480	196.350	59,648,665

KNOWLES DUPLEX ENGINE No. 1.—RECORD FOR 1897.

WATER WORKS.											
Months.	Days.	Pumping.			Raising Steam.	Coal Consumed.		Gallons of Water Pumped.	Height in Feet and Decimals.	Duty.	
		Hrs.	Min.	Strokes.		Pumping.	Total.				
January	31	744	.....	562,404	.....	2,024,300	2,024,300	524,160,528	191.303	41,420,079
February	28	672	.....	396,320	.....	1,426,300	1,426,300	369,370,240	188.727	40,808,164
March	31	795	.....	433,796	.....	1,560,000	1,560,000	404,297,872	186.631	40,444,604
April.....	30	673	.....	439,552	.....	1,582,150	1,582,150	409,662,464	188.235	40,751,773
May	31	744	.....	501,550	.....	1,803,850	1,803,850	467,444,600	190.855	41,355,473
June.....	30	716	30	488,154	.....	1,756,600	1,756,600	454,959,528	194.440	42,110,011
July	22	512	15	393,861	.....	1,417,850	1,417,850	367,078,452	195.875	42,404,048
August	30	712	.....	507,400	3,000	1,826,150	1,829,150	472,896,800	194.088	41,958,043
September.....	30	720	.....	516,673	.....	1,859,700	1,859,700	481,539,236	197.498	42,761,366
October.....	31	735	.....	469,537	.....	1,689,950	1,689,950	437,608,484	195.245	42,275,772
November	30	717	30	379,703	.....	1,366,600	1,366,600	353,883,196	191.206	41,401,843
December.....	31	744	.....	468,582	.....	1,686,400	1,686,400	436,718,424	192.657	41,718,169
Totals and averages	355	8,425	15	5,557,532	3,000	19,999,850	20,002,850	5,179,619,824	192.230	41,622,390	

DEPARTMENT OF PUBLIC WORKS.

KNOWLES DUPLEX ENGINE No. 2.—RECORD FOR 1897.

Months.	Days.	Pumping.			Coal Consumed.			Gallons of Water Pumped.	Height in Feet and Decimals.	Duty.
		Hrs.	Min.	Strokes.	Raising Steam.	Pumping.	Total.			
January	4	85	.....	42,257	.....	154,600	154,600	39,383,524	213.443	45,465,996
February	5	102	.....	50,983	.....	173,250	173,250	47,516,156	200.809	46,052,279
March .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
April .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
May .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
June .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
July	10	231	45	150,193	3,000	514,500	517,500	139,979,876	199.129	45,039,085
August	12	246	.....	152,777	6,000	519,250	525,250	142,388,164	199.532	45,240,695
September .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
October .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
November	21	509	40	254,033	3,000	872,400	875,400	236,758,756	196.540	44,447,815
December	12	259	.....	150,204	2,000	510,650	512,650	139,991,128	197.499	45,096,287
Totals and averages	65	1,433	25	800,447	14,000	2,744,650	2,758,650	746,016,604	201.167	45,489,220

SCHEDULE

Showing the Distribution of Water for Each Day and Month in the Year 1897.

Months.	Gallons of Water Pumped by Worthington Engine No. 1.	Gallons of Water Pumped by Worthington Engine No. 2.	Gallons of Water Pumped by Worthington Engine No. 3.	Gallons of Water Pumped by Worthington Engine No. 4.	Gallons of Water Pumped by Knowles Engine No. 1.	Gallons of Water Pumped by Knowles Engine No. 2.	Gallons Distributed.			
							Per Month.	Average Per Day.	Each Inhabitant Per Day.	Each Consumer Per Day.
January.....	.....	98,157,160	318,467,960	534,497,040	524,160,528	39,383,524	1,514,666,212	48,860,200	1.7.6	150.3
February.....	.....	252,551,420	243,806,320	418,628,320	369,370,240	47,516,156	1,331,872,456	47,566,873	134.0	146.3
March.....	.....	272,473,880	191,704,620	482,214,480	404,297,872	.....	1,350,690,852	43,570,673	122.7	134.1
April.....	32,612,000	290,690,100	.....	506,601,920	409,662,464	.....	1,239,566,484	41,318,892	116.4	127.1
May.....	667,920	288,713,510	73,478,680	504,490,800	467,444,600	.....	1,334,795,510	43,057,921	121.3	132.5
June.....	957,260	293,388,340	303,134,740	485,810,160	454,959,528	.....	1,538,250,048	51,275,002	144.4	157.8
July.....	16,824,320	339,123,260	333,938,200	546,403,440	367,078,452	139,979,876	1,743,347,548	56,237,018	158.4	173.0
August.....	.....	315,318,980	316,547,820	373,980,640	472,896,800	142,388,164	1,621,132,404	52,291,594	147.3	160.9
September.....	.....	303,075,220	307,838,060	529,624,480	481,539,226	.....	1,622,076,996	54,069,233	152.3	166.4
October.....	.....	293,708,880	295,622,200	510,287,960	437,608,484	.....	1,537,226,924	49,587,985	139.7	152.5
November.....	.....	167,324,980	146,865,600	439,528,320	353,883,196	236,758,756	1,344,360,852	41,912,028	126.2	137.9
December.....	.....	283,689,680	289,510,240	330,575,520	436,718,424	139,990,128	1,480,483,992	47,757,518	134.5	146.9
Totals.....	51,061,520	3,198,215,440	2,820,914,440	5,662,642,480	5,179,619,824	746,016,604	17,658,470,308	48,379,371	136.3	148.9

Estimated Number of Consumers, 325,000.

SCHEDULE

Showing the total and average quantities of water pumped each year since the beginning of the works.

Years.	GALLONS DISTRIBUTED.				Per Cent. of Increase.
	Per Year.	Per Day.	Each Inhabitant Per Day.	Each Consumer Per Day.	
1857	127,262,265	348,664	7.75	110.68	.....
1858	142,155,434	393,467	8.37	93.44	11.70
1859	198,284,090	513,107	11.31	91.27	39.45
1860	230,220,354	710,984	14.11	105.57	31.87
1861	322,175,022	881,599	16.32	114.50	23.81
1862	369,673,092	1,012,794	19.47	120.57	14.74
1863	420,790,875	1,152,875	20.97	117.54	12.83
1864	476,114,225	1,300,858	21.63	123.89	12.14
1865	517,261,005	1,417,153	21.80	122.70	8.64
1866	587,372,220	1,609,239	22.35	124.26	13.55
1867	696,369,375	1,907,861	23.85	115.98	18.55
1868	768,786,975	2,106,265	24.77	116.08	10.40
1869	898,936,425	2,462,839	27.36	120.20	16.92
1870	1,126,228,500	3,085,558	30.86	113.20	25.28
1871	1,367,621,100	3,746,907	35.64	124.90	21.43
1872	1,686,370,895	4,607,571	40.07	131.64	22.67
1873	1,869,768,835	5,095,230	43.06	137.71	10.85
1874	2,050,252,910	5,625,150	45.36	141.10	9.65
1875	2,216,775,816	6,073,358	44.00	136.65	8.12
1876	2,399,225,403	6,573,220	49.22	131.28	8.23
1877	2,820,326,074	7,726,920	55.91	142.24	17.55
1878	2,892,946,823	7,925,882	51.13	135.06	2.57
1879	3,455,271,981	9,466,498	62.69	145.61	19.43
1880	3,725,683,021	10,179,461	65.25	145.23	7.82
1881	4,847,209,363	13,280,025	76.76	162.34	30.10
1882	4,494,598,536	12,313,804	68.41	136.04	-7.27
1883	5,187,432,657	14,212,144	75.60	136.80	15.41

SCHEDULE

Showing the total and average quantities of water pumped each year since the beginning of the works.—Continued.

Years.	GALLONS DISTRIBUTED.				Per Cent, of Increase.
	Per Year.	Per Day.	Each Inhabitant Per Day.	Each Consumer Per Day.	
1884	5,990,378,137	16,367,163	82.56	137.83	15.47
1885	6,552,003,190	17,950,694	93.49	139.28	9.37
1886	7,128,673,365	19,530,611	91.26	136.60	8.80
1887	8,127,146,648	22,266,155	95.97	140.38	14.00
1888	8,491,091,152	23,199,703	95.08	130.08	4.48
1889	9,079,461,064	24,875,236	98.71	104.51	6.93
1890	10,142,312,796	27,787,158	106.05	128.64	11.70
1891	11,766,533,132	32,237,077	111.16	136.02	16.01
1892	13,338,134,220	36,442,989	117.56	142.91	13.35
1893	15,389,565,660	42,163,194	129.73	157.91	15.38
1894	14,414,534,830	39,491,876	112.83	134.32	—6.34
1895	17,211,343,804	47,154,366	136.6	151.1	19.42
1896	16,700,534,508	45,629,875	128.5	142.5	—2.96
1897	17,658,470,308	48,379,371	136.3	148.9	5.74

CORNISH ENGINE RECORD FOR 1897.--WEST ENGINE.

Months.	Days	Pumping.			Coal Consumed.			Gallons of Water Pumped.	Height in Feet and Decimals.	Duty.
		Hrs.	Min.	Strokes.	Raising Steam.	Pumping.	Total.			
January	31	423	.....	237,550	38,000	228,842	266 842	76,253,550	161.916	38,694,487
February.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
March.....	30	396	30	225,650	38,000	179,614	217,614	72,433,650	163.252	45,442,708
April .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
May.....	30	421	40	238,350	38,000	190,594	228,594	76,670,850	162.709	45,638,406
June .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
July.....	31	475	.....	280,450	38,000	234,187	272,187	90,024,450	163.220	45,146,074
August.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
September.....	30	529	.....	313,300	27,600	285,660	313,260	100,569,300	162.358	43,589,887
October.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
November.....	30	503	.....	287,350	28,400	259,498	297,898	92,239,350	162.694	42,128,193
December .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals and averages.....	182	2,748	10	1,583,150	208,000	1,368,395	1,596,395	508,191,150	162.691	43,311,507

CORNISH ENGINE RECORD FOR 1897.—EAST ENGINE.

WATER WORKS.

Months.	Days.	Pumping.			Coal Consumed.			Gallons of Water Pumped.	Height in Feet and Decimals.	Duty.
		Hrs.	Min.	Strokes.	Raising Steam.	Pumping.	Total.			
January.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
February	28	372	30	215,850	34,400	217,440	251,840	69,237,850	161.431	37,142,595
March.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
April	28	376	.....	214,700	36,800	180,480	217,280	68,918,700	163.367	43,334,583
May.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
June.....	30	441	.....	254,250	36,800	209,916	246,716	81,614,250	162.913	45,069,090
July.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
August	31	455	30	274,700	38,000	238,682	276,682	88,178,700	162.688	43,360,096
September.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
October.....	31	482	05	288,850	36,800	253,578	290,378	92,720,850	161.040	43,003,061
November.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
December.....	30	447	15	267,350	38,000	255,381	293,381	85,819,350	162.837	39,834,313
Totals and averages.....	178	2,574	20	1,515,700	220,800	1,355,477	1,576,277	486,539,700	162.379	41,914,778

BOTH ENGINES.

Months.	Days.	Pumping.			Coal Consumed.			Gallons of Water Pumped.	Height in Feet and Decimals.	Duty.
		Hrs.	Min.	Strokes.	Raising Steam.	Pumping.	Total.			
West Engine.....	182	2,748	10	1,583,150	208,000	1,388,395	1,596,395	508,191,150	162.601	43,311,507
East Engine	178	2,574	20	1,515,700	220,800	1,355,477	1,576,277	486,539,700	162.379	41,914,778
Totals and averages.....	360	5,322	30	3,098,850	428,800	2,743,872	3,172,672	994,730,850	162.535	42,613,142

SCHEDULE

Showing the Distribution of Water for each Day and Month in
the Year 1897.

IN HIGH SERVICE DISTRICT.

Months.	Gallons of Water Pumped by East Cornish Engine.	Gallons of Water Pumped by West Cornish Engine.	Gallons Distributed.	
			Per Month.	Average Per Day.
January .....	.....	76,253,550	76,253,550	2,459,792
February	69,287,850	.....	69,287,850	2,474,576
March .....	.....	72,433,650	72,433,650	2,336,569
April	68,918,700	.....	68,918,700	2,297,290
May .....	.....	76,670,850	76,670,850	2,473,253
June.....	81,614,250	.....	81,614,250	2,720,475
July .....	.....	90,024,450	90,024,450	2,904,014
August	88,178,700	.....	88,178,700	2,844,474
September .....	.....	100,569,300	100,569,300	3,352,210
October.....	92,720,850	.....	92,720,850	2,990,995
November .....	.....	92,239,350	92,239,350	3,074,647
December.....	85,819,350	.....	85,819,350	2,768,366
Totals.....	486,539,700	508,191,150	994,730,850	2,725,290

SCHEDULE

Showing the Total and Average Quantities of Water Pumped
each Year by the High Service Pumping Engines.

Year.	Gallons Distributed.		Per Cent. of Increase.
	Per Year.	Average Per Day.	
1886.....	207,975,900	565,797	.....
1887.....	124,355,400	340,699	.....
1888.....	127,324,650	347,882	27.1
1889.....	173,532,600	475,431	36.29
1890.....	218,328,150	598,159	25.81
1891.....	339,008,100	928,789	55.27
1892.....	406,016,850	1,109,335	19.77
1893....	638,902,350	1,750,417	57.60
1894.....	593,866,050	1,627,030	-7.05
1895.....	859,509,600	2,354,821	44.73
1896.....	864,998,700	2,363,384	.64
1897.....	994,730,850	2,725,290	15.00

LOW SERVICE DISTRICT--SCHEDULE SHOWING THE EXTENSION OF WATER PIPE IN 1897.

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
48	.....	Main st. Tunnel..	{ From a point 21½ ft. N. of S. L. E. River st. and 69¼ ft. W. of C. L. Main st. to a point 22 ft. N. S. L. W. River st. and 101 ft. W. of Main st. }	739	.....	Riveted steel pipe.
48	E.....	Spruce Street.....		148	.....	Riveted steel pipe.
			more Slip.....		887	
42	E.....	Alabama Street...	{ From 24 ft. N. of Hamilton st. to W. end of curve at E. line of Alabama st..... }	68		
42	S.....	Hamilton Street..		3,517		
42	S.....	Main Street.....		85		
42	E.....	Spruce Street.		91		
42	E.....	Spruce Street.		318		
42	S.....	W. River Street..		211	4,280	
			more Slip.....			
36	W	Ridge Avenue....	From 56 ¼ ft. S. of Clark ave. to 49 feet S. of Berry st.....	2,157	2,157	
16	W	Case Avenue.....	From 49 ft. N. of Hamilton st. to 51 ft. S. of Hamilton st.....	170		
16	W	Independence St..	" 36 ft. S. of Sykora st. to pipe in Fleet st.....	2,017		
16	E.....	Pearl Street.....	" 15 ft. N. of Dover st. to 36 ft. S. of Dennison ave.....	2,145	4,332	
12	N.....	Archwood Street..	From 16-in. pipe to 8-in. pipe in Pearl st.....	20		
			Forward.....	.....	

LOW SERVICE DISTRICT.—Schedule Showing the Extension of Water Pipe in 1897.—Continued.

DEPARTMENT OF PUBLIC WORKS.

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
			<i>Forward</i>.....	.....	.....
12	.....	Canal Street.....	From 16-in. pipe in Ohio st. to 10-in. pipe in Canal st.....	21		10 ft. of 6-in. pipe taken out
12	N.....	Fleet Street.....	" 16-in. pipe in Independence st. E.....	16		
12	W	Willson Avenue..	" 12 ft. S. of McBride st. S. to connect.....	419	476	
10	W ...	Canal Street.....	From 7 ft. S. of Ohio st. to 422 ft. N. of Factory st. to the E.....	1,039	{	503 ft. of 4-in. taken out.
10	E.....	Columbus Street..	" 15 ft. S. of Center st. S.....	15	...	536 ft. of 4-in. abandoned.
10	N. ...	Denison Avenue..	" 16-in. pipe to 8-in. pipe in Pearl st.....	20	...	15 ft. of 4-in. pipe abandoned.
10	N.....	Fleet Street.....	" 29 ft. W. of E. L. Independence st. to pipe in Petrie st.....	79		
10	E.....	Gordon Avenue...	" pipe in Storer ave. N. to connect.....	382		
10	W	Independence St..	" pipe in Fleet st. S	57		
10	S	Lake Street.....	" 12 ft. E. of Erie st. to E. L. Canfield st.....	1,211	{	250 ft. of 4-in. taken out.
10	W	Lake View Ave....	" pipe in Crawford rd. to 60 ft. N. of Superior st.....	2,122	...	34 ft. of 6-in. taken out.
10	N.....	Storer Avenue....	" pipe in Gordon ave to 37 ft. E. of Ritchie st. to connect.....	76		927 ft. of 4-in. abandoned.
10	N.....	Storer Avenue....	" pipe in Hamburg st. to 55 ft. W. of Vacin st. to connect..	1,111		
10	S	Western Avenue..	" pipe in Motley st. to pipe in Helen st.....	817	7,622	
			<i>Forward</i>.....	.....	.....

LOW SERVICE DISTRICT.—Schedule Showing the Extension of Water Pipe in 1897.—Continued.

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
			<i>Forward</i>.....	.....	.....
8	E.....	Ansel Avenue....	From S. L. Wade Park ave to 12 ft. N. of Wade Park ave.....	82		
8	S	Crawford Avenue.	" pipe in Lake View ave. W. to connect.....	24		
8	W	Doan Street.....	" 235 ft. S. of pipe in Boulevard S.....	53		
8	W	Lake View Ave...	" pipe in Crawford rd. S.....	100		
8	S	McBride Street...	" 8-in. pipe in Willson ave. to E. L. Willson ave.....	37		
8	S	Summit Street....	" 15½ ft. E. of Seneca st. to 17 ft. W. E. line Seneca st... ..	33		8-in. and 4-in. pipe abandoned.
8	S	Wade Park Ave..	" 96 ft. W. of Ansel ave. to 5 ft. E. of Ansel ave.....	150	479	
6	E.....	Alexander Street.	From 287 ft. N. of Francis st. to 4 ft. S. of Bower st.....	79		
6	E.....	Alum Street.....	" pipe in Storer ave. to 27 ft. N. of Cotta st. to connect.....	1,048		
6	E.....	Alum Street.....	" 331 ft. N. of Clark ave. N.....	38		
6	E.....	Ami Court.....	" 4½ ft. S. of Detroit st. S.....	624		
6	W	Archer Street....	" pipe in Auburndale ave. N.....	557		
6	S	Auburndale	" pipe in Lake View ave. to pipe in Archer ave.....	239		
6	S	Barbara Avenue..	" pipe in E. Madison ave. to 6 ft. E. of Dunham ave.....	940		
6	N. ...	Bayne Street.....	" 419½ ft E. of Browning st. E. to W. L. Gordon ave.....	272		
			<i>Forward</i>.....	.....	.....

LOW SERVICE DISTRICT.—Schedule Showing the Extension of Water Pipe in 1897.—Continued.

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
			<i>Forward</i>.....	.....	
6	N.....	Bellflower Avenue	From 268 ft. E. of Ford pl. W. to connect.....	679		
6	S.	Beverly Street....	" pipe in N. Aspen st. W.....	327		
6	S.....	Bower Street.....	" 8-in. pipe in Willson ave. to 12 ft. E. of Willson ave.....	44		
6	S.....	Branch Avenue...	" W. L. Merchants ave. to pipe in Merchants ave.....	17		
6	E.....	Briggs Street.....	" 6-in. pipe in Lake st. to pipe in Davenport st.....	252	{	181 ft. 4 in. taken out. 71 ft. 4-in. abandoned.
6	W	Burt Street.....	" pipe in Quebec st. N. to connect.....	895		
6	S.....	Cable Street.....	" 1,262 ft. E. of Broadway to 38 ft. W. of Adolpha st.....	260		
6	W	Canfield Street...	" 42 ft. S. of Lake st. to 10-in. pipe in Lake st.....	84		4-in. pipe taken out
6	W	Clarion Street....	" 443½ ft. S. of Denison ave. S.....	24		
6	S.....	Cotta Street.....	" pipe in Gilbert st. to pipe in Alum st.....	479		
6	N.....	Cumberland St...	" 448 ft. E. of Bolton ave, E.....	99		
6	N.....	Daisy Avenue	" 63 ft. E. of Tyler st. W.....	221		
6	W	Dallas Street....	" pipe in Derby st. N.....	650		
6	S.....	Davenport Street.	" pipe in Briggs st. W.....	181	{	60 ft. 4-in. taken out. 123 ft. 4-in. abandoned.
6	S.....	Derby Street.....	" pipe in Ansel ave. to pipe in Dallas st.....	229		
6	S.....	Duluth Street....	" 8-in. pipe in E. Madison ave. to pipe in Giddings ave.....	501		
			<i>Forward</i>.....	.....	

LOW SERVICE DISTRICT.—Schedule Showing the Extension of Water Pipe in 1897.—Continued.

Sta.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
			<i>Forward</i>.....	.....	
6	E.....	Ellen Street.....	From pipe in Bridge st. N.....	51		
6	W.....	Ellendale Avenue	" pipe in Lake View ave. N.....	573		
6	E.....	Evergreen Street.	" pipe in Roland st. N. to connect.....	76		
6	E.....	Evins Court.....	" 12 ft. S. of N. L. Luman Pl. to 151 ft. S. of Luman pl.....	179		
6	S.....	Finn Street.	" 25 ft. W. of Eric st. to 7 ft. W. of Colorado st. to the S.....	222		
6	S.....	Fir Street.....	" pipe in Waverly st. to W. L. Waverly st.....	36		
6	S.....	Frank Street.....	" 790½ ft. E. of Doan st. E.....	44		
6	N.....	Franklin Avenue.	" pipe in Lohengrin st. to pipe in Malcolm st.....	757		
6	S.....	Freeman Street...	" E. L. Pearl st. to 169 ft. E. of Gehring st.....	379	.....	261 ft. 4-in pipe taken out.
6	S.....	Gale Avenue.....	" pipe in Marcy ave. W. to connect.....	8		
6	E.....	Gehring Street....	" 24 ft. N. of Pearl st. to pipe in Freeman st.....	307		
6	E.....	Giddings Avenue.	" pipe in Lawnview ave. to pipe in Beecher ave.....	233		
6	E.....	Giddings Avenue.	" pipe in Linwood st. to N. L. of Lexington ave. to connect.....	334		
6	E.....	Gilbert Street.....	" pipe in Storer ave. N. to connect.....	15		
6	W	Gloyd Street.....	" N. L. Superior st. to pipe in Hoffman st.....	990		
6	W.....	Gregg Street.....	" N. 4-in. pipe in Riverside ave. to pipe in Leading st.....	212		
			<i>Forward</i>.....	.....	

LOW SERVICE DISTRICT.—Schedule Showing the Extension of Water Pipe in 1897.—Continued.

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
			<i>Forward</i>.....	.....	
6	W	Halsey Street.....	From 383 ft. S. of Wain al. S.	249		
6	W.....	Halsey Street.....	" pipe in Quebec st. N.....	231		
6	N.....	Harley Street.....	" 6-in. pipe in Scranton ave. to E. L. Scranton ave.....	22		
6	E.....	Harmon Street....	" pipe in Woodland ave. to 15 ft. N. of Woodland ave.....	77		4 in. pipe taken out.
6	E.....	Helen Street.....	" pipe in Western ave. N. to connect.....	46		
6	E.....	Herald Street.....	" pipe in Dell ave. to pipe in Filbert st.....	530		
6	S.....	Hough Place.....	" 438 ft. E. of Amesbury ave. E.....	100		
6	E....	Isabella Street....	" pipe in Storer ave. N. to connect.....	73		
6	N.....	Jennie Street.....	" 6-in. pipe in Scranton ave. to E. L. Scranton ave.....	22		
6	W.....	Kershaw Street...	" pipe in Fleet st. S.....	973		
6	S.....	Lawnview Avenue	" W. L. E. Madison ave. W. to connect.....	233		
6	N.....	Leading Street....	" pipe in Gregg st. W....	126		
6	E.....	Lenox Street.....	" 157 ft. S. of Clark ave. to 36½ ft. S. of Camden st.....	410		
6	S.. ...	Magnet Street....	" 14 ft. E. of Broadway to 12 in. pipe in Willson ave.....	658		
6	W.....	Marcy Avenue....	" 262 ft. S. of Gale ave. to 319 ft. N. of Gale ave. to connect.....	627		
6	W.....	Mariner Street....	" pipe in Fairchild st. N.....	48		
			<i>Forward</i>.....	.....	

LOW SERVICE DISTRICT.—Schedule Showing the Extension of Water Pipe in 1897.—Continued.

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
			<i>Forward</i>.....	.....	
6	N.....	Maurice Street....	From 8-in. pipe in Willson ave. to E. L. Willson ave.....	31		
6	W.....	Melvin Street.....	" 6 ft. S. of Orville st. N.....	512		
6	W.....	Merchant Avenue	" pipe in Branch ave. N.....	161		
6	E.....	Motley Street.....	" pipe in W. Madison ave. to pipe in Western ave.....	2,419		
6	E.....	Muirson Street...	" pipe in Hamilton st. to 10-in. pipe in Lake st.....	342		
6	S.....	Mumford Place....	" pipe in Willson ave. to W. L. Willson ave.....	30		
6	N.....	Newark Street....	" pipe in Rhodes ave. W. to connect.....	969		
6	S.....	Nevada Street....	" 536 ft. E. of Bolton ave. E.....	61		
6	S.....	Norman Street....	" 777 ft. E. of Doan st. E.	311		
6	E.....	North Aspen St...	" pipe in Lawn st. to pipe in Beverly st.	169		
6	W.....	Penrose Avenue..	" pipe in Wierfield st. N.....	123		
6	W.....	Pixley Street.....	" 2 ft. N. of Kenneth st. S... ..	133		
6	E.....	Poplar Street.....	" pipe in Storer ave. to N. L. Carlos st.....	1,543		
6	E.....	Poplar Street.....	" pipe in Storer ave. N. to connect.. ..	274		
6	E.....	Prescott Street...	" pipe in W. Madison ave. to pipe in Western ave.. ..	2,420		
6	E.....	President Street..	" pipe in Storer ave. S.....	1,492		
			<i>Forward</i>.....	.....	

LOW SERVICE DISTRICT.—Schedule Showing the Extension of Water Pipe in 1897.—Continued.

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
			<i>Forward</i>.....	.....	.....
6	E.....	Prim Street.....	From pipe in Storer ave. S.....	674		
6	S.....	Redman Street. . .	" pipe in Foster ave. to 239 feet E. of Lookout st.....	588		
6	S.....	Reid Street.....	" pipe in Petrie st. W.....	728		
6	N.....	Renovo Street....	" 8-in. pipe in Willson ave. to 12 ft. W. of Willson ave.....	61		
6	N.....	Republic Place....	" pipe in Republic st. W.....	376		
6	E.,....	Reynolds Street..	" pipe in Weston ave. S.....	393		
6	N.....	Roland Street.....	" pipe in Tod st. to pipe in Evergreen st.....	417		
6	S.....	Rouse Street.....	" pipe in Dickerman st. to pipe in Herald st.....	316		
6	W.....	Russell Avenue...	" S. L. Superior st. to pipe in Whitney ave.....	550		
6	E.....	Scoville Lane.....	" pipe in Detroit st. to pipe in Lake ave.....	672	{	21 ft. 4-in. pipe taken out. 24 ft. 4-in pipe abandoned.
6	W.....	Scoville Lane.....	" pipe in Lake ave. N.....	419		
6	E.....	Scranton Avenue.	" 24 ft. N. of Pearl st. N. to connect.....	470		
6	S. . . .	Stanton Street....	" E. L. Giddings ave. E.....	403		
6	E.....	Stone's Levee.....	" elbow at 30-inch Main S.....	15		
6	E.....	Storer Place.....	" pipe in Storer ave. to 5 ft. S. of Gilbert Place.....	582		
6	S.....	Sumner Street....	" pipe in Erie st. to 3 ft. W. of Brownell st.....	1,199	.....	1191 ft. 4-in. pipe taken out.
			<i>Forward</i>.....	.....	.....

LOW SERVICE DISTRICT.—Schedule Showing the Extension of Water Pipe in 1897.—Continued.

WATER WORKS.					
Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.
			<i>Forward</i>.....	.....
6	N....	Sweeney Street...	From 8-in. pipe in Willson ave. to W. L. Willson ave.....	47	
6	W....	Washington Street	" S. L. Center st. N.....	71	26 ft. 4-in. pipe taken out.
6	S.....	W. Clinton Street.	" 791 ft. W. of Gordon ave. W.....	330	
6	S.....	W. Hermann St...	" pipe in Smithfield st. W.....	248	
6	S.....	W. River Street..	" W. L. Main st. to Spruce st.....	304	4-in. pipe taken out.
6	N....	Wierfield Street..	" 110 ft. E. of Penrose ave. to 225 ft. W. of Woodlawn ave.....	614	
6	S.....	Willard Street....	" pipe in Wellington ave. to pipe in Davis ave.....	988	
6	W....	Willson Avenue..	" 8-in. pipe in Willson ave. at 13 ft. N. of Bower st. W. and N.....	218	
6	E.....	Winslow Street...	" 8-in. pipe in Center st. N.....	40	
6	W	Woodlawn Ave....	" pipe in Wierfield st. N.....	500	39,848
4	E.....	Alfred Street.....	From pipe in Little st. N	269	
4	E.....	Evins Court	" 7 ft. S. of Woodland ave. to 12 ft. S. of N. L. Luman pl.....	242	
4	S.....	Factory Street....	" pipe in Canal st. E. to connect.....	209	
4	W.&S.	Little Street.....	" 8 ft. S. of Little st. to pipe in Alfred st.....	55	
4	S.. ...	Noble Alley.....	" E. L. Bright st to W. L. Ontario st.....	267	
			<i>Forward</i>.....	.....

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
			<i>Forward</i>.....	.....	.....
4	N.....	Orchard Place....	From pipe in Luverne st. W.....	389		
4	E.....	Reynolds Street..	" 15 ft. N. of Western ave. to pipe in Western ave.....	53		
4	W.....	Stevens Court....	" pipe in Mayfield st. to N. L. Mayfield st.....	38		
4	N.....	Vega Alley.....	" pipe in Rhodes av. W.....	480		
4	.....	For Hydrants.....	.....	1,812	3,794	
			Total number of feet of all sizes.....		63,275	

LOW SERVICE DISTRICT.—SCHEDULE OF PIPE TAKEN OUT AND ABANDONED IN 1897.

Size Taken Out or Abandoned.	Street.	Between What Points.	Feet	Total.	Remarks.
8	Bessemer Avenue.	From 935 ft. E. of Burlington st. E.....	526	.....	Changed to High Service.
8	Bessemer Avenue.	" 935 ft. E. of Burlington st. W.....	15	.....	Taken out.
8	Summit Street....	" E. L. Seneca st. W.....	18	.....	Abandoned.
8	Wellington Ave....	" E. L. Lorain st. S.....	327	.....	Changed to High Service.
8	Willson Avenue..	" 61 ft. S. of Wooldridge ave. S.....	49	.....	Taken out and abandoned.
				935	
6	Canal Street.....	From 16-in. pipe in Ohio st. to 10-in. pipe in Canal st.....	21	.....	Taken out and abandoned.
6	Lake Street.....	" pipe in Canfield st. to E. L. Canfield st	34	.....	Taken out.
6	Sage Street.....	" S. L. Lorain st. to Dennison ave.....	1,302	.....	Changed to High Service.
6	Stearns Street....	" 11 ft. S. of Euclid ave. S.....	390	.....	Abandoned.
6	Yonkers Street...	" S. L. Lorain st. S.....	1,696	.....	Changed to High Service.
				3,343	
4	Briggs Street.. ...	From 6-in. pipe in Lake st. to pipe in Davenport st	252	.....	Taken out and abandoned.
4	Canal Street.....	" 7 ft. S. of Ohio st. to 422 ft. N. of Factory st.....	1,309	.....	Taken out and abandoned.
4	Canfield Street....	" 42 ft. S. of Lake st. to 10-in. pipe in Lake st	84	.....	Taken out.
4	Columbus Street..	" 15 ft. S. of Center st. S.....	15	.....	Abandoned.
4	Davenport Street.	" pipe in Briggs st. W.....	183	.....	Taken out and abandoned.
		Forward.....	.....	.....

LOW SERVICE DISTRICT.—Schedule of Pipe Taken Out and Abandoned in 1897.—Concluded.

Size Taken Out or Abandoned.	Size Relaid.	Street.	Between What Points.	Feet	Total.	Remarks.
			<i>Forward,</i>.....	.....	.....
4	6	Freeman Street...	From 23 ft. W. of Gehring st. to 169 ft. E. of Gehring st.....	264	.....	Taken out.
4	6	Harmon Street...	" pipe in Woodland ave. N.....	77	.....	Taken out.
4	10	Lake Street.....	" 12 ft. E. of Erie st. to pipe in Canfield st.....	1,177	.....	Taken out and abandoned.
4	6	Scoville Lane.....	" pipe in Detroit st. N.....	45	.....	Taken out and abandoned.
4	8	Summit Street....	" E. L. Seneca st. E.....	15	.....	Abandoned.
4	6	Sumner Street....	" pipe in Erie st. to 3 ft. W. of Brownell st.....	1,199	.....	Taken out.
4	6	West River Street.	" W. L. Main st. W.....	304	.....	Taken out.
4	.....	With Hydrants...	.....	228	..... 4,882	
3	.....	With Hydrants...	.....	120	120	
			Total of all sizes taken out and abandoned.....		9,280	

-LOW SERVICE DISTRICT.
Total Feet of Pipe in Use December 31, 1897.

Diameter of Pipe in Inches.	48	42	36	30	24	20	16	12	10	8	6	4	3	Total.	
In use previous to 1897.....	577	13,108	65,556	70,554	12,387	11,964	65,610	47,537	114,555	374,151	1,217,492	213,030	18,551	2,224,972	
Laid in 1897.....	887	4,280	2,157	.....	.....	.....	4,332	476	7,622	479	39,848	3,794	.....	63,875
Taken out in 1897.....	1,464	17,388	67,713	70,554	12,387	11,964	69,842	48,013	122,177	374,630	1,257,340	216,824	18,551	2,288,847	
	.....	.....	.....	.....	.....	.....	.....	.....	.....	935	3,343	4,882	120	9,280
Total in use Dec. 31, 1897	1,464	17,388	67,713	70,554	12,387	11,964	69,842	48,013	122,177	373,685	1,253,997	211,942	18,431	2,279,567	
	251,312						2,028,255								

LOW SERVICE DISTRICT.

Increased Mileage of Pipe during the Year 1897.

48-inch pipe.....	0 miles	887 feet.
42 " "	0 "	4280 "
36 " "	0 "	2157 "
16 " "	0 "	4332 "
Total.....		2 miles 1096 feet of supply mains.
12-inch pipe.....	0 miles	476 feet.
10 " "	1 "	2342 "
6 " "	6 "	4825 "
Total.....		8 miles 2363 feet.
8-inch pipe decreased	456 feet.	
4 " " "	1088 "	
3 " " "	120 "	0 miles 1664 feet.
Total gain.....		8 miles 699 feet of distributing mains

10 miles 1895 feet net increase of pipe laid in Low Service District in 1897.

HIGH SERVICE DISTRICT.—SCHEDULE SHOWING THE EXT'SION OF WATER PIPE IN 1897.

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
30	S.	Denison Avenue..	From 230 ft. 4 in. E. of Ridge ave. W.....	92		
30	W	Denison Extension	Crossing under Cuyahoga River.....	242	.....	Riveted steel pipe.
30	W	Denison Extension	From 30-in riveted pipe under Cuyahoga River S. to connect.....	52	386	
24	W	Denison Extension	From 30-in. riveted pipe under Cuyahoga River N. to connect	107	107	
16	.....	Denison Avenue..	{ From 30-in. pipe to 12-in. pipe in Denison ave. at a point 216 ft. E. of } C. L. Ridge ave.....	16	16	
12	N	Denison Avenue .	From pipe in Richard st. to 12 ft. W. of Gordon ave.....	6,169		
12	N	Denison Avenue..	" 14 ft. E. of Gordon ave. to 12 ft. W. of Iona st.....	2,248		
12	N	Denison Avenue..	" 18 ft. E. of Iona st. to 20 ft. W. of Rhodes ave.....	2,481		
12	N	Harvard Street.,...	" 12-in. pipe to 8-in. pipe in Warwick st.....	23		
12	E	Ridge Avenue....	" 12-in. pipe in Denison ave. S.....	20		
12	W	Ridge Avenue....	" 12-in. pipe in Denison ave. N.....	54		
12	E	Warwick Street...	" 31 ft. N. of S. L. Harvard st. to 12-in. pipe in Harvard st.....	9	11,004	
10	N	Bessemer Avenue.	From pipe in Atlantic st. W. to connect.....	1,645		
			Forward.....	.....	.....

HIGH SERVICE DISTRICT.—Schedule Showing the Extension of Water Pipe in 1897.—Continued.

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
			<i>Forward</i>.....	.....	.....
10	N.....	Harvard Street...	From 8-in. pipe in Warwick st. W.....	29		
10	N.....	Harvard Street...	" 12-in. pipe in Warwick st. E.....	23		
10	W.....	Turney Avenue...	" pipe in Tioga st. N.....	997	2,694	
8	N.....	Bessemer Avenue.	From 935 ft. E. of Burlington st. E.....	526	.....	Changed from Low Service
8	E.....	Broadway	" 8 ft. S. of Miles ave. S.....	129		
8	E.& N.	{ Edge Hill Road } { & right of way. }	" 180 ft. E. of Murray Hill ave. to pipe in Overlook road.....	356	.....	Private pipe.
8	S.....	Fleet Street.....	" 64 ft. E. of Ashbel st. E. to connect.....	339		
8	S.....	Fremont Street...	" pipe in Marcelline ave. W. to connect.....	641		
8	W.....	Kenilworth Road.	" 140 ft. N. of pipe in Overlook road S.....	673	.....	Private pipe.
8	W.....	Lapier Avenue...	" 34 ft. N. of S. L. Evans st. to 12-in. pipe in Denison ave.....	1,992		
8	E.....	Martindale Street.	" pipe in Denison ave. to S. L. Denison ave.....	22		
8	W.....	Overlook Road...	" valve at right of way to pipe in Kenilworth Road.....	371	.....	Private pipe.
8	E.....	Virginia Street...	" pipe in Denison ave. to S. L. Denison ave.....	22		
8	E.....	Wellington Ave...	" S. L. Denison ave. to 279 ft. N. of Denison ave. to connect.....	340		
8	E.....	Wellington Ave..	" S. L. Lorain st. S.....	327	.....	Changed from Low Service
			<i>Forward</i>.....	.....	.....

HIGH SERVICE DISTRICT.—Schedule Showing the Extension of Water Pipe in 1897.—Continued.

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
			<i>Forward</i>.....	.....	.....
8	W.....	Warwick Street..	From 10-in. pipe in Harvard St. S.....	56	5,794	
6	S.....	Ætna Street.....	From 10-in. pipe in Woodland Hills ave. E.....	1,700		
6	E.....	Alum Street.....	" 12-in. pipe in Denison ave. N.....	28		
6	W.....	Baldwin Avenue.	" pipe in Quincy st. S.....	336		
6	S.....	Beacon Street	" 608 ft. E. of Woodland Hills ave. E.....	76		
6	E.....	Bleeker Street....	" 12-in. pipe in Denison ave. to 9 ft. N. of Denison ave.....	26		
6	S.....	Bristol Street.....	" pipe in Beckwith ave. W.....	232		
6	S.....	Brunner Street ..	" 82 ft. E. Broadway E.....	136		
6	N.....	Clement Street...	" pipe in Reade st. to pipe in Bissell st.....	635		
6	N.....	Covert Street.....	" pipe in Marcelline ave. E.....	612		
6	W.....	Elmwood Street..	" 34 ft. S. of Worley st. to pipe in Ottawa st.	358		
6	S.....	Finney Street....	" pipe in Eben st. E. to connect.....	180		
6	S.....	Frank Street	" 6 ft. W. of Woodland Hills ave. W.....	621		
6	S.....	Goodman Street..	" pipe in Warren rd. W.....	600		
6	W.....	Greenleaf Street..	" 10-in. pipe in Harvard st. to pipe in Henrietta st.....	559		
			<i>Forward</i>.....	.....	.....

HIGH SERVICE DISTRICT.—Schedule Showing the Extension of Water Pipe in 1897.—Continued.

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
			<i>Forward</i>.....	.....	
6	S.....	Harris Avenue....	From pipe in Niagara st. W.....	151		
6	S.....	Heath Avenue ...	" 10-in. pipe in Woodland Hills ave. E.....	1,515		
6	N.....	Henrietta Street...	" pipe in Greenleaf st. E. to connect.....	617		
6	E.....	Hoyt Court.....	" 12-in. pipe in Denison ave. S.....	45		
6	E.....	Isabella Street....	" 12-in. pipe in Denison ave. N.....	29		
6	N.....	Krakow Street....	" 396 ft. W. of Marcelline ave. W.....	237		
6	W.....	Lapier Avenue...	" pipe in Storer ave. to 18 feet S. of N. L. Evans st.....	1,303		
6	W.....	Leopold Street....	" 10-in pipe in Harvard st. to pipe in Finney st.....	801		
6	S.....	Marshall Street...	" 10-in. pipe in Woodland Hills ave. W.....	313		
6	W.....	Milford Street....	" 12-in. pipe in Denison ave. N.....	27		
6	E.....	Minton Street....	" 12-in. pipe in Denison ave. N.....	38		
6	E.....	Ogden Street.....	" 12-in. pipe in Denison ave. S.....	52		
6	W.....	Phillips Street....	" pipe in Union st. N.....	296		
6	S.....	Pratt Street	" pipe in Atwater st. to pipe in Ruggles st	262		
6	E.....	President Street...	" 12-in. pipe in Denison ave. N.....	29		
6	E.....	Prim Street.....	" 12-in. pipe in Denison ave. N... ..	28		
			<i>Forward</i>.....	.....	

HIGH SERVICE DISTRICT.—Schedule Showing the Extension of Water Pipe in 1897.—Concluded.

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
			<i>Forward</i>.....	.....	
6	E....	Richard Street....	From 12-in. pipe in Denison ave. N.....	38		
6	E....	Ritchie Street....	" 12 in. pipe in Denison ave. N.....	24		
6	W....	Ruggles Street....	" pipe in Pratt st. S.....	15		
6	E....	Sage Street.....	" S. L. Lorain st. to Denison ave.....	1,302	.....	Changed from Low Service
6	E....	Sage Street.....	" pipe in Denison ave. N. to connect.....	38		
6	E....	Sears Street	" pipe in Storer ave. to 12-in. pipe in Denison ave.....	1,811		
6	N.	Sophia Street.....	" 10-in. pipe in Woodland Hills ave. to pipe in Wilhelm st.....	952		
6	E....	Wilhelm Street...	" pipe in Sophia st. N. to connect	71		
6	S....	Worley Street....	" pipe in Crosby st. to 226 ft. W. of Elmwood st.....	574		
6	W....	Wright Street....	" pipe in Ktna st. N. to 295 ft. S. of Union st. to connect.....	998		
6	E....	Wyoming Street..	" 12-in. pipe in Denison ave. N.....	29		
6	E....	Yonker Street....	" 12-inch pipe in Denison ave. N. to connect.....	88		
6	E....	Yonker Street....	" S. L. Lorain st. south	1,696	.....	Changed from Low Service
				<u>1,308</u>	<u>19,538</u>	
4	... ....	For Hydrants.....		1,308	1,308	
			Total number of feet of all sizes.....	.....	40,847	

HIGH SERVICE DISTRICT.—SCHEDULE OF PIPE TAKEN OUT AND ABANDONED IN 1897.

Size Taken Out or Aban- doned.	Size Relaid.	Street.	Between What Points.	Feet.	Total.	Remarks.
8	{ Edge Hill Road } { & right of way. }	From 180 ft. E. of Murray Hill ave. E.....	268	.....	Abandoned.
8	{ Overlook Road } { & right of way. }	" pipe in right of way N.....	104	... 372	Abandoned.
			Total.....		372	

HIGH SERVICE DISTRICT.

Total Feet of Pipe in Use December 31, 1897.

[illegible]

HIGH SERVICE DISTRICT.

Increased Mileage of Pipe During the Year 1897.

30-inch pipe.....	0 miles	386 feet.	
24 " "	0 "	107 "	
16 " "	0 "	16 "	
	—	—	
Total.....	0 "	509 "	of supply mains.
12-inch pipe.....	2 miles	444 feet.	
10 " "	0 "	2694 "	
8 " "	1 "	142 "	
6 " "	3 "	3698 "	
4 " "	0 "	1308 "	
	—	—	
Total.....	7 "	3006 "	of distributing mains.
	7 miles	3515 feet	net increase laid in High Service District.

RECAPITULATION.

Total pipe laid in low service district.....	12 miles	615 feet.
" " " high " "	7 "	3887 "
	—	—
Total laid in both.....	19	4502 "
PIPE TAKEN OUT AND ABANDONED.		
In low service district.....	1 mile	4.000 feet.
In high service district.....	372 "	1 mile 4372 feet.
	—	—
Net increase in both districts.....	18 "	130 "

TOTAL MILEAGE OF PIPE IN USE IN HIGH AND LOW SERVICE DISTRICTS.

Diameter of Pipe. Inches.	Low Service District.		High Service District.		Both Districts.		
	Miles.	Feet.	Miles.	Feet.	Miles.	Feet.	
48	0	1464	1464	{ 59 miles 1279 feet of supply mains.
42	3	1548	.....	.....	3	1548
36	12	4353	.....	.....	12	4353
30	13	1914	5	1489	18	3403	
24	2	1827	3	4992	6	1539	
20	2	1404	1	944	3	2348	
16	13	1202	1	1262	14	2464	
12	9	493	5	3505	14	3998	
10	23	737	9	850	32	1587	
8	70	4095	7	810	77	4905	
6	237	2637	32	566	269	3203	
4	40	742	2	2231	42	2973	
3	3	2591	3	2591	{ 440 miles 3517 feet of distributing mains.
Total.....	431	3987	68	809	499	4696	

LOW SERVICE DISTRICT.—SCHEDULE SHOWING THE LOCATION OF FIRE
HYDRANTS SET IN 1897.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4	W.....	Alfred Street.....	250	N. of Little Street.....	
1	4	E.....	Alum Street.....	278½	N. of Storer Avenue.....	
1	4	E.....	Alum Street.....	685½	N. of Storer Avenue.....	
1	4	E.....	Ami Court.....	190½	S. of Detroit Street.....	
1	4	E.....	Ami Court.....	476½	S. of Detroit Street.....	
1	4	E.....	Ami Court.....	628½	S. of Detroit Street.....	
1	4	W.....	Archer Street.....	61	N. of Auburndale Avenue.....	
1	4	W.....	Archer Street.....	370	N. of Auburndale Avenue.....	
1	4	W.....	Archer Street.....	529	N. of Auburndale Avenue.....	
1	4	S.....	Barbara Street.....	271	W. of E. Madison Avenue.....	
1	4	S.....	Barbara Street.....	325½	E. of Dunham Avenue.....	
1	4	S.....	Barbara Street.....	6	E. of Dunham Avenue.....	
1	4	N.....	Bellflower Avenue.....		At Ford Place.....	
1	4	N.....	Beverly Street.....	304	W. of N. Aspen Street.....	
1	4	W.....	Burt Street.....	261	N. of Quebec Street.....	
1	4	W.....	Burt Street.....	561	N. of Quebec Street.....	
					Forward.....	

LOW SERVICE DISTRICT.—Schedule Showing the Location of Fire Hydrants Set in 1897.—Continued.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4	S.....	Cable Street.....	38	<i>Forward</i>	
C-1	3 to 4	W.....	Canal Street.....		W. of Adolpha Street.....	
1	4	W.....	Canal Street.....	173	At Ohio Street....	Changed from East Side.
1	4	W.....	Canal Street.....	150	N. of Ohio Street.....	
C-1	3 to 4	W.....	Canfield Street.....	36	N. of Factory Street.....	
C-1	4	N.....	Cherry Alley.....	249	S. of Lake Street.....	Changed from East Side
C-1	3 to 4	W.....	Columbus Street.....		E. of Odell Alley.....	{ Flushing hydrant, regular hydrant taken out.
1	4	S.....	Cotta Street.....	208½	At Moore Street.....	
1	4	N.....	Cumberland Street.....	189½	W. of Gilbert Street.....	
1	4	N.....	Daisy Avenue	107½	W. of Oakdale Street...	
1	4	W.....	Dallas Street.....	20	W. of Tyler Street.....	
1	4	W.....	Dallas Street.....	327	N. of Derby Street.....	
1	4	W.....	Dallas Street.....	45	N. of Derby Street.....	
1	4	N.....	Dover Avenue.....	15	S. of Dryden Street.....	
1	4	S.....	Duluth Street.....	216	W. of Pearl Street.....	
1	4	W.....	Ellendale Avenue.....	215	E. of Giddings Avenue.....	
					N. of Lake View Avenue.....	
					<i>Forward</i>	

LOW SERVICE DISTRICT.—SCHEDULE SHOWING THE LOCATION OF FIRE
HYDRANTS SET IN 1897.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4	W....	Alfred Street.....	250	N. of Little Street.....	
1	4	E.....	Alum Street.....	278½	N. of Storer Avenue.....	
1	4	E.....	Alum Street.....	685½	N. of Storer Avenue.....	
1	4	E.....	Ami Court.....	190½	S. of Detroit Street.....	
1	4	E.....	Ami Court.....	476½	S. of Detroit Street.....	
1	4	E.....	Ami Court.....	628½	S. of Detroit Street.....	
1	4	W.....	Archer Street.....	61	N. of Auburndale Avenue.....	
1	4	W.....	Archer Street.....	370	N. of Auburndale Avenue.....	
1	4	W.....	Archer Street.....	529	N. of Auburndale Avenue.....	
1	4	S.....	Barbara Street.....	271	W. of E. Madison Avenue.....	
1	4	S.....	Barbara Street.....	325½	E. of Dunham Avenue.....	
1	4	S.....	Barbara Street.....	6	E. of Dunham Avenue.....	
1	4	N.....	Bellflower Avenue.....	.....	At Ford Place	
1	4	N.....	Beverly Street.....	304	W. of N. Aspen Street.....	
1	4	W.....	Burt Street.....	261	N. of Quebec Street.....	
1	4	W.....	Burt Street.....	561	N. of Quebec Street.....	
					Forward.....	

LOW SERVICE DISTRICT.—Schedule Showing the Location of Fire Hydrants Set in 1897.—Continued.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4	S.....	Cable Street.....	38	<i>Forward</i>	
C-1	3 to 4	W.....	Canal Street.....		W. of Adolpha Street.....	
1	4	W.....	Canal Street.....	173	At Ohio Street....	Changed from East Side.
1	4	W.....	Canal Street.....	150	N. of Ohio Street.....	
C-1	3 to 4	W.....	Canfield Street.....	36	N. of Factory Street.....	
C-1	4	N.....	Cherry Alley.....	249	S. of Lake Street.....	Changed from East Side
C-1	3 to 4	W.....	Columbus Street.....		E. of Odell Alley	{ Flushing hydrant, regular hydrant taken out.
1	4	S.....	Cotta Street.....	208½	At Moore Street.....	
1	4	N.....	Cumberland Street.....	182½	W. of Gilbert Street.....	
1	4	N.....	Daisy Avenue	107½	W. of Oakdale Street.....	
1	4	W.....	Dallas Street.....	20	W. of Tyler Street.....	
1	4	W.....	Dallas Street.....	327	N. of Derby Street.....	
1	4	W.....	Dallas Street.....	45	S. of Dryden Street.....	
1	4	N.....	Dover Avenue.....	15	W. of Pearl Street.....	
1	4	S.....	Duluth Street.....	216	E. of Giddings Avenue.....	
1	4	W.....	Ellendale Avenue.....	215	N. of Lake View Avenue.....	
					<i>Forward</i>	

LOW SERVICE DISTRICT.—Schedule Showing the Location of Fire Hydrants Set in 1897.—Continued.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4	W.....	Ellendale Avenue.....	519½	<i>Forward</i>	
1	4	E.....	Evins Court.....	123	N. of Lake View Avenue.....	
1	4	E.....	Evins Court.....	151	S. of Woodland Avenue.....	
1	4	S.....	Finn Street.....	7	S. of Luman Place.....	
1	4	S.....	Floyd Street.....	7	W. of Colorado Street to the South.....	
1	4	N.....	Franklin Avenue.....	222	E. of Jackson Street.....	
1	4	N.....	Franklin Avenue....		W. of Lohengrin Street.....	
C-1	3 to 4	N.....	Franklin Avenue.....	11	On W. L. of Lowell Street.....	
1	4	W.....	Gloyd Street.....	157	E. of Columbus street.....	
1	4	W.....	Gloyd Street.....	451½	N. of Superior Street.....	
1	4	W.....	Gloyd Street.....	221	N. of Superior Street.....	
1	4	E.....	Gordon Avenue.....	323	S. of Hoffman Street.....	
1	4	W.....	Gordon Avenue.....		N. of Storer Avenue.....	
1	4	W.....	Halsey Street.....	274	At Storer Avenue.....	
1	4	W.....	Halsey Street.....	196	S. of Wain Alley.....	Tee and branch were in.
C-1	3 to 4	S.....	Hamilton Street.....		N. of Quebec Street.....	
					At Sterling Avenue.....	
					<i>Forward</i>	

LOW SERVICE DISTRICT.—Schedule Showing the Location of Fire Hydrants Set in 1897.—Continued.

No.	Siso.	Side.	Street.	Feet.	Location.	Remarks.
1	4	E.....	Harmon Street.....	274	<i>Forward</i>	
C-1	3 to 4	E.....	Harmon Street.....	6	N. of Woodland Avenue.....	
1	4	E.....	Herald Street.....	161	S. of Scovill Avenue.....	Changed from West Side.
1	4	E.....	Jackson Street.....	10½	S. of Dell Avenue to the East.....	
1	4	W.....	Kershaw Street.....	249	S. of Woodland Avenue.....	
1	4	W.....	Kershaw Street.....	788	S. of Fleet Street.....	
1	4	W.....	Kershaw Street.....	1,120	S. of Fleet Street.....	
C-1	3 to 4	N.....	Lake Street.....		At Dodge Street.....	{ Changed in 1896, but not reported.
C-1	3 to 4	N.....	Lake Street.....		At Buell Street.....	{ Changed in 1896, but not reported.
1	4	S.....	Lake Street.....		At Muirson Street.....	
1	4	S.....	Lake Street.	216	E. of Muirson Street.....	
1	4	W.....	Lake View Avenue.....	269½	S. of Moulton Street.....	
1	4	W.....	Lake View Avenue.....	5½	N. of Moulton Street.....	
1	4	W.....	Lake View Avenue.....	8	S. of Beulah Street.....	
1	4	W.....	Lake View Avenue.....	181	S. of Cheapside Street.....	
1	4	W.....	Lake View Avenue.....	15	N. of Superior Street.....	
					<i>Forward</i>	

LOW SERVICE DISTRICT.—Schedule Showing the Location of Fire Hydrants Set in 1897.—Continued.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4	N.....	Leading Street.....	.....	<i>Forward</i>	
1	4	N.....	Leading Street..	114	At Gregg Street.....	
1	4	E.....	Lenox Street.....	36½	W. of Gregg Street.....	
1	4	S.....	Magnet Street.....	231	S. of Camden Street.....	
1	4	N.....	Mapledale Avenue.....	8	E. of Broadway.....	
1	4	S.....	May Street.....	6	W. of Pearl Street.....	
1	4	W.....	Melvin Street.....	278	E. of Broadway.....	
1	4	W.....	Melvin Street.....	488	N. of Orville Street.....	
1	4	W.....	Merchant Avenue.....	125	N. of Orville Street.....	
1	4	E.....	Motley Street.....	124	N. of Branch Avenue.....	
1	4	E.....	Motley Street.....	458	S. of W. Madison Avenue.....	
1	4	E.....	Motley Street.....	761½	S. of W. Madison Avenue.....	
1	4	E.....	Motley Street.....	1,089	S. of W. Madison Avenue.....	
1	4	E.....	Motley Street.....	950	N. of Western Avenue	
1	4	E.....	Motley Street.....	625	N. of Western Avenue.....	
1	4	E.....	Motley Street.....	274½	N. of Western Avenue.....	
					<i>Forward</i>	

LOW SERVICE DISTRICT.—Schedule Showing the Location of Fire Hydrants Set in 1897.—Continued.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4	N.....	Newark Street.....	289	<i>Forward</i>	
1	4	N.....	Newark Street.....	70	W. of Rhodes Avenue.....	
1	4	N.....	Noble Alley.....	119	E. of Clifford Street.....	
1	4	S.....	Norman Street...	207	W. of Ontario Street.....	
C-1	4	W.....	Odell Alley.....		W. of Woodland Hills Avenue.....	{ Flushing hydrant, regular hydrant taken out.
1	4	N.....	Orchard Place...	360	At Cherry Alley	
1	4	E.....	Pearl Street.....	25	W. of Luverne Street.....	
1	4	W.....	Penrose Street.....	117	N. of Forestdale Avenue.....	
1	4	E.....	Poplar Street.....	241½	N. of Wierfield Street.....	
1	4	E.....	Poplar Street.....	241½	S. of Storer Avenue.....	
1	4	E.....	Poplar Street.....	29	N. of Evans Street.....	
1	4	E.....	Poplar Street.....	331	S. of Evans Street.....	
1	4	E.....	Poplar Street.....		S. of Evans Street.....	
1	4	E.....	Prescott Street.....	194	On N. L. Carlos Street.....	
1	4	E.....	Prescott Street.....	493½	S. of W. Madison Avenue	
1	4	E.....	Prescott Street.....	791½	S. of W. Madison Avenue.....	
					<i>Forward</i>	

LOW SERVICE DISTRICT.—Schedule Showing the Location of Fire Hydrants Set in 1897.—Continued.

DEPARTMENT OF PUBLIC WORKS.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4	E.....	Prescott Street.....	1,089	<i>Forward</i>	
1	4	E.....	Prescott Street.....	968	S. of W. Madison Avenue	
1	4	E.....	Prescott Street.....	675½	N. of Western Avenue.....	
1	4	E.....	Prescott Street.....	373	N. of Western Avenue.....	
1	4	E.....	Prescott Street.....	71	N. of Western Avenue.....	
1	4	E.....	President Street.....	238	S. of Storer Avenue.....	
1	4	E.....	President Street.....	540	S. of Storer Avenue.....	
1	4	E.....	President Street ..	841	S. of Storer Avenue.....	
1	4	E.....	President Street.....	530½	N. of Denison Avenue	
1	4	E.....	President Street.....	205½	N. of Denison Avenue.....	
1	4	E.....	Prim Street.....	301	S. of Storer Avenue.....	
1	4	E.....	Prim Street.....	636	S. of Storer Avenue	
1	4	S.....	Redman Street.....	92	E. of Foster Avenue.....	
1	4	S.....	Redman Street.....	80	E. of Lookout Street.....	
1	4	S.....	Redman Street.....	239	E. of Lookout Street.....	
1	4	S.....	Reid Street	334	W. of Petrie Street.....	
					<i>Forward</i>	

LOW SERVICE DISTRICT.—Schedule Showing the Location of Fire Hydrants Set in 1897.—Continued.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4	S.....	Reid Street.....	708	<i>Forward</i>	
1	4	N.....	Republic Place.....	352	W. of Petrie Street.....	
1	4	E.....	Reynolds Street.....	360½	W. of Republic Street.....	
1	4	N.....	Roland Street.....	142	S. of Western Avenue.....	
1	4	W.....	Russell Avenue.....	256	W. of Tod Street	
1	4	E.....	Scoville Lane.....	105	N. of Whitney Street.....	
1	4	E.....	Scoville Lane.	184	N. of Detroit Street.....	
1	4	W.....	Scoville Lane.....	253	S. of Lake Avenue.....	
1	4	W.....	Scoville Lane.....	389	N. of Lake Avenue.....	
1	4	E.....	Scranton Avenue.....	91	N. of Lake Avenue.....	
1	4	S.....	Stanton Street.....	145	N. of Jennie Street.....	
1	4	S.....	Stanton Street.....	403	E. of Giddings Avenue.....	
1	4	N.....	Storer Avenue.....	.....	E. of Gidding Avenue.....	
1	4	N.....	Storer Avenue.....	19	At Prim Street.....	
1	4	E.....	Storer Place.....	288½	E. of Alum Street to the South.....	
1	4	E.....	Storer Place.....	5	N. of Storer Avenue.....	
					S. of Gilbert Place.....	
					<i>Forward</i>	

LOW SERVICE DISTRICT.—Schedule Showing the Location of Fire Hydrants Set in 1897.—Continued.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4	W.....	State Street.....	199	<i>Forward</i>	
C-1	3 to 4	W....	State Street.....	.15	S. of Clinton Street.....	
1	4	E.....	Van Buren Street.....	321	S. of Clinton Street.....	
1	4	.....	Vega Alley.....	.....	S. of Central Avenue.....	
1	4	S.....	Wade Park Avenue.....	5	At Wade Alley.....	
1	4	E.....	Wason Street.....	221	E. of Ansel Avenue.....	
1	4	E.....	Wason Street.....	539½	S. of St. Clair Street.....	
1	4	S.....	W. Clinton Street.....	913	S. of St. Clair Street.....	
1	4	S.....	W. Hermann Street.....	237	W. of Gordon Avenue.....	
1	4	W.....	W. River Street.....	1,383	W. of Smithfield Street.....	
1	4	S.....	Western Avenue.....	.....	N. of Columbus Street.....	
1	4	N.....	Wierfield Street.....	225	At Motley Street.....	
1	4	N.....	Wierfield Street.....	47	W. of Woodlawn Avenue.....	
1	4	N.....	Wierfield Street.....	110	E. of Woodlawn Avenue.....	
1	4	S.....	Willard Street.....	24	E. of Penrose Avenue.....	
1	4	S.....	Willard Street.....	267	E. of Wellington Avenue.....	
					W. of Bazetta Street.....	
					<i>Forward</i>	

LOW SERVICE DISTRICT.—Schedule Showing the Location of Fire Hydrants Set in 1897.—Concluded.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4	S.....	Willard Street.....	.....	Forward.....	
1	4	W....	Willson Avenue.....	269	At Bazetta Street.....	
1	4	W....	Willson Avenue.....	34	S. of Magnet Street.....	
1	4	E.....	Willson Avenue.....	61	S. of Lufkin Street,.....	
1	4	W....	Willson Avenue.....	213	S. of Wooldridge Avenue.	
1	4	W....	Woodlawn Avenue.....	236	N. of Bower Street.....	
1	4	W....	Woodlawn Avenue.....	478½	N. of Wierfield Street.....	
151	.....	.....	Total Hydrants set in 1897.			

LOW SERVICE DISTRICT.—SCHEDULE OF HYDRANTS TAKEN OUT IN 1897.

DEPARTMENT OF PUBLIC WORKS.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4	N.....	Bessemer Avenue.....	1261	East of Burlington Street.....	Changed to High Service.
1	4	N.....	Bessemer Avenue.....	935	East of Burlington Street.....	Changed to High Service.
1	3	E.....	Canal Street.....		At Ohio Street.....	
1	3	E.....	Canfield Street.....		At Lake Street.....	
1	3	E.....	Center Street.....		At Washington Street.....	
1	4	S.....	Cherry Alley.....	249	East of Odell Alley.....	Changed to flushing hydrant.
1	3	W....	Columbus Street.....		At Moore Street.....	
1	3	N.....	Franklin Avenue.....		At Columbus Street.....	
1	3	S.....	Hamilton Street.....		At Sterling Avenue.....	
1	3	N.....	Lake Street.....		At Dodge Street.....	{ Taken out in 1896 but not reported.
1	3	N.....	Lake Street.....		At Buell Street.....	
1	4	W....	Marcy Avenue.....	262	South of Gale Avenue.....	{ Taken out in 1896 but not reported.
1	4	W....	Odell Alley.....		At Cherry Alley.....	
1	4	E.....	Sage Street.....	10	North of Denison Avenue.....	Changed to flushing hydrant.
1	4	E.....	Sage Street.....	558	South of Lorain Street.....	Changed to High Service.
1	4	E.....	Sage Street.....	248	South of Lorain Street.....	Changed to High Service.
1	4	E.....	Sage Street.....	889	South of Lorain Street.....	Changed to High Service.
1	3	S.....	Scovill Avenue.....		At Harmon Street.....	

LOW SERVICE DISTRICT.—Schedule of Hydrants Taken Out in 1897.—Concluded.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	3	W	State Street.....	.....	At Clinton Street.....	
1	4	W	Stearns Street.....	14	South of Euclid Avenue.....	
1	4	W	Stearns Street.....	301	South of Euclid Avenue.....	
1	4	E.....	Wellington Avenue.....	13	South of Lorain Street.....	Changed to High Service.
1	4	E.....	Wellington Avenue.....	326½	South of Lorain Street.....	Changed to High Service.
1	4	E.....	Yonker Street.....	9	South of Lorain Street.....	Changed to High Service.
1	4	E.....	Yonker Street.....	330	South of Lorain Street.....	Changed to High Service.
1	4	E.....	Yonker Street.....	646	South of Lorain Street	Changed to High Service.
1	4	E.....	Yonker Street.....	962	South of Lorain Street.....	Changed to High Service.
1	4	E.....	Yonker Street.....	1285	South of Lorain Street.....	Changed to High Service.
1	4	E.....	Yonker Street.....	1688	South of Lorain Street.....	Changed to High Service.

19 Total 4-inch hydrants taken out.
10 Total 3-inch hydrants taken out.

LOW SERVICE DISTRICT.—SCHEDULE SHOWING HYDRANTS MOVED IN 1897.

No.	Size.	Side.	Street.	Feet.	Location.
1	4	E.....	Alexander Avenue.....	.....	At Bower Street, moved from 87 feet south of Bower Street.
1	4	E.....	Alum Street.....	366	North of Clark Avenue, moved from 331 feet north of Clark Avenue.
1	1	N.....	Bellflower Avenue.....	306	West of Ford Place, moved from 354 feet west of Ford Place.
1	4	N.....	Bessemer Avenue.....	920	East of Burlington Street, moved from 1457 feet east of Burlington Street.
1	4	S.....	Cable Street.....	211½	West of Adolphs Street, moved from 301½ feet west of Adolphs Street.
1	4	W....	Clarion Street.....	467½	South of Denison Avenue, moved from 443 feet south of Denison Avenue.
1	4	S.....	Frank Street.....	834	East of Doan Street, moved from 790½ feet east of Doan Street.
1	4	W....	Halsey Street.....	632	South of Wain Alley, moved from 383 feet south of Wain Alley.
1	4	E.....	Harmon Street.....	338	South of Scovill Avenue, moved from 432 feet south of Scovill Avenue.
1	4	S.....	Hough Place.....	542	East of Amesbury Avenue, moved from 438 feet east of Amesbury Avenue.
1	4	W....	Lake View Avenue....	4	North of Hazel Street, moved from Crawford Road at Lake View Avenue.
1	4	S.....	Nevada Street.....	592	East of Bolton Avenue, moved from 531 feet east of Bolton Avenue.
1	4	W....	Pixley Street.....	90	South of Kenneth Street, moved from north line Kenneth Street.
1	4	N.....	Storer Avenue.....	.....	At Poplar Street, moved from Isabella Street 57 feet north of Storer Avenue.
1	4	N.....	Storer Avenue.....	.....	At Isabella Street, moved from 55 feet west of Vacin Street.
1	4	S.....	Sumner Street.....	277	West of Brownell Street, moved from 153 feet west of Brownell Street.
1	4	S.....	Sumner Street.....	559	East of Erie Street, moved from 599 feet east of Erie Street.
1	4	E.....	Van Buren Avenue.....	282½	North of Quincy Street, moved from 437 feet north of Quincy Street.

LOW SERVICE DISTRICT.—Schedule Showing Hydrants Moved in 1897.—Concluded.

No.	Size.	Side.	Street.	Feet.	Location.
1	4	S	West Clinton Street	1121	West of Gordon Avenue, moved from 791 feet west of Gordon Avenue.
1	4	E	Willson Avenue	124	North of Julia Street, moved from south line Julia Street.
20	.....	.....	Total hydrants moved in 1897.		

LOW SERVICE DISTRICT.—RECAPITULATION OF
FIRE HYDRANTS FOR 1897.

4-inch hydrants set in 1897.....	151
Hydrants in use December 31st, 1896.....	4,742
Total.....	4,893
3-inch and 4-inch hydrants taken out in 1897.....	29
Total hydrants in use December 31st, 1897.....	4,864
Of 4864 hydrants in use 147 are 6-inch, the balance are 3 and 4-inch.	

HIGH SERVICE DISTRICT.—SCHEDULE SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1897.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4	S.....	Ætna Street.....	287	E. of Woodland Hills Avenue.....	{ Changed from Low Service System. Changed from Low Service System.
1	4	S.....	Ætna Street.....	609	E. of Woodland Hills Avenue.....	
1	4	S.....	Ætna Street.....	934	E. of Woodland Hills Avenue.....	
1	4	S.....	Ætna Street.....	1,257	E. of Woodland Hills Avenue.....	
1	4	S.....	Ætna Street.....	1,650	E. of Woodland Hills Avenue...	
1	4	W.....	Baldwin Street.....	300	S. of Quincy Street.....	
1	4	N.....	Bessemer Avenue.....	.....	At E. Madison Avenue.....
1	4	N.....	Bessemer Avenue.....	901½	W. of E. Madison Avenue.....	
1	4	N.....	Bessemer Avenue.....	1,186½	W. of E. Madison Avenue.....	
1	4	N.....	Bessemer Avenue.....	1,261	E. of Burlington Street.....	
1	4	N.....	Bessemer Avenue.....	935	E. of Burlington Street.....	
1	4	S.....	Bristol Street.....	202	W. of Beckwith Avenue.....	
1	4	E.....	Broadway.....	137	S. of Miles Avenue.....	
1	4	S.....	Brunner Street.....	218	E. of Broadway.....	
1	4	N.....	Clement Street.....	201½	W. of Bissell Avenue.....	
1	4	N.....	Clement Street.....	126½	E. of Reade Street.....	
					Forward.....	

HIGH SERVICE DISTRICT.—Schedule Showing the Location of Fire Hydrants Set in 1897.—Continued.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4	N.....	Covert Street.....	274	<i>Forward</i>	
1	4	N.....	Covert Street.....		E. of Marcelline Avenue.....	
1	4	S.....	Denison Avenue.....		At Reade Street.....	
1	4	S.....	Denison Avenue.....	13	At Richard Street.....	
1	4	N.....	Denison Avenue.....		W. of Wellington Avenue.....	
1	4	S.....	Denison Avenue.....		At Martindale Street.....	
1	4	S.....	Denison Avenue.....	273	W. of Sage Street.....	
1	4	S.....	Denison Avenue.....		At Minton Street.....	
1	4	S.....	Denison Avenue.....	287	E. of Yonker Street.....	
1	4	S.....	Denison Avenue.....	625	E. of Yonker Street.....	
1	4	S.....	Denison Avenue.....	975	E. of Yonker Street.....	
1	4	S.....	Denison Avenue.....	1,313	E. of Yonker Street.....	
1	4	S.....	Denison Avenue.....	1,645	E. of Yonker Street.....	
1	4	S.....	Denison Avenue.....	6	W. of Ridge Avenue.....	
1	4	N.....	Denison Avenue.....	148	E. of E. L. right of way of Big Four R. R....	
1	4	N.. ..	Denison Avenue.....	486	E. of E. L. right of way of Big Four R. R....	
1	4	N.....	Denison Avenue.....	816	E. of E. L. right of way of Big Four R. R....	
					<i>Forward</i>	

HIGH SERVICE DISTRICT.—Schedule Showing the Location of Fire Hydrants Set in 1897.—Continued.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4	N.....	Denison Avenue.....	929	<i>Forward</i>	
1	4	N.....	Denison Avenue.....	593	W. of Gordon Avenue.....	
1	4	N.....	Denison Avenue.....	245	W. of Gordon Avenue.....	
1	4	N.....	Denison Avenue.....	43	W. of Gordon Avenue.....	
1	4	N.....	Denison Avenue.....	24	E. of Alum Street.....	
1	4	N.....	Denison Avenue.....	36	E. of Ritchie Street.....	
1	4	N.....	Denison Avenue.....	14	E. of President Street.....	
1	4	N.....	Denison Avenue.....	127	W. of Ogden Street.....	
1	4	N.....	Denison Avenue.....	243	E. of Bleeker Street.....	
1	4	N.....	Denison Avenue.....	12	W. of Iona Street.....	
1	4	N.....	Denison Avenue..	38	W. of Isabella Street.....	
1	4	N.....	Denison Avenue.....	220	W. of Wyoming Street.....	
1	4	N.....	Denison Avenue.....	526½	E. of Wyoming Street.....	
1	4	N.....	Denison Avenue.....	238	E. of Wyoming Street.....	
1	4	N.....	Denison Avenue.....		W. of Milford Street.....	
1	4	N.....	Denison Avenue.....		At E. L. Milford Street.....	
1	4	N.....	Denison Avenue.....	159	E. of Lapier Street.....	
					<i>Forward</i>	

HIGH SERVICE DISTRICT.—Schedule Showing the Location of Fire Hydrants Set in 1897.—Continued.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4	W.....	Elmwood Street...	<i>Forward</i>	Tee valve and pipe were in.
1	4	S.....	Frank Street.....	302	At Worley Street.....	
1	4	S.....	Frank Street.....	627	W. of Woodland Hills Avenue.....	
1	4	S.....	Fremont Street.....	210½	W. of Woodland Hills Avenue.....	
1	4	S.....	Fremont Street.....	830½	W. of Marcelline Avenue.....	
1	4	S.....	Goodman Street.....	272	W. of Marcelline Avenue.....	
1	4	S.....	Goodman Street.....	571	W. of Warner Road.....	
1	4	W.....	Greenleaf Street	213	W. of Warner Road.....	
1	4	W.....	Greenleaf Street.....	6½	S. of Harvard Street.....	
1	4	S.....	Harris Avenue.....	137	N. of Henrietta Street.....	
1	4	S.....	Heath Avenue.....	233	W. of Niagara Street.....	
1	4	S.....	Heath Avenue.....	542	E. of Woodland Hills Avenue.....	
1	4	S.....	Heath Avenue.....	863	E. of Woodland Hills Avenue.....	
1	4	S.....	Heath Avenue.....	1,172	E. of Woodland Hills Avenue.....	
1	4	S.....	Heath Avenue.....	1,465	E. of Woodland Hills Avenue.....	
1	4	N.....	Henrietta Street.....	9½	W. of Markham Street.....	
					<i>Forward</i>	

HIGH SERVICE DISTRICT.—Schedule Showing the Location of Fire Hydrants Set in 1897.—Continued.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4	W.....	Kenilworth Road.....	.....	<i>Forward</i>	
1	4	W.....	Kenilworth Road	423	At Overlook Road.....	
1	4	N.....	Krakow Street.....	314	S. of Overlook Road.....	
1	4	W.....	Lapier Street.....	84	W. of Marcelline Avenue.....	Tee valve and pipe were in.
1	4	W.....	Lapier Street.....	223	S. of Storer Avenue.....	
1	4	W.....	Lapier Street.....	40	N. of Gennett Street.....	
1	4	W.....	Lapier Street.....	261	S. of Gennett Street.....	
1	4	W.....	Lapier Street.....	9	N. of Evans Street.....	
1	4	W.....	Lapier Street.....	26	S. of Evans Street.....	
1	4	W.....	Lapier Street.....	347	S. of Bush Avenue.....	
1	4	W.....	Lapier Street.....	672½	S. of Bush Avenue.....	
1	4	W.....	Lapier Street.....	237	N. of Leflin Street.....	
1	4	W.....	Lapier Street.....	62	S. of Leflin Street.....	
1	4	W.....	Lapier Street.....	12	N. of Denison Avenue.....	
1	4	E.....	Leopold Street.....	261	S. of Harvard Street.....	
1	4	E.....	Leopold Street.....	116	N. of Finney Street.....	
					<i>Forward</i>	

HIGH SERVICE DISTRICT.—Schedule Showing the Location of Fire Hydrants Set in 1897.—Continued.

DEPARTMENT OF PUBLIC WORKS.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4	S.....	Marshall Street...	284½	<i>Forward</i>	
1	4	W.....	Phillips Street.....	239	W. of Woodland Hills Avenue.....	
1	4	E.....	Prim Street.....	6	N. of Union Street.....	
1	4	E.....	Sage Street...	122	N. of Denison Avenue.....	Changed from Low Service.
1	4	E.....	Sage Street.....	558	N. of Denison Avenue.....	Changed from Low Service.
1	4	E.....	Sage Street.....	248	S. of Lorain Street.....	Changed from Low Service.
1	4	E.....	Sage Street.....	889	S. of Lorain Street.....	Changed from Low Service.
1	4	E.....	Sears Street.....	258	S. of Storer Avenue.....	
1	4	E.....	Sears Street.....	586	S. of Storer Avenue.....	
1	4	E.....	Sears Street.....	886	S. of Storer Avenue.....	
1	4	E.....	Sears Street.....	577	N. of Denison Avenue.....	
1	4	E.....	Sears Street.....	250	N. of Denison Avenue.....	
1	4	N.....	Sophia Street.....	256½	W. of Woodland Hills Avenue..	
1	4	N.....	Sophia Street.....	282	E. of Wilhelm Street.....	
1	4	W.....	Turney Avenue.....	14	N. of Force Street.....	
1	4	W.	Turney Avenue.....	327	N. of Force Street.....	
					<i>Forward</i>	

HIGH SERVICE DISTRICT.—Schedule Showing the Location of Fire Hydrants Set in 1897.—Concluded.

No.	Size	Side	Street.	Feet.	Location.	Remarks.
1	4	W	Turney Avenue.....	641	<i>Forward</i>	
1	4	W	Warwick Street.....	4	N. of Force Street.....	
1	4	E.....	Wellington Avenue.....	13	S. of Harvard Street.....	Changed from Low Service.
1	4	E.....	Wellington Avenue.....	326½	S. of Lorain Street.....	Changed from Low Service.
1	4	S	Worley Street.....	226	W. of Elmwood Street.....	
1	4	W	Wright Street.....	208	N. of Aetna Street.....	
1	4	W	Wright Street.....	509	N. of Aetna Street.....	
1	4	W	Wright Street.....	206	S. of Union Street.....	Tee valve and pipe were in.
1	4	E.....	Yonker Street.....	330	S. of Lorain Street.....	Changed from Low Service.
1	4	E.. ...	Yonker Street.....	646	S. of Lorain Street.....	Changed from Low Service.
1	4	E.....	Yonker Street.....	962	S. of Lorain Street.....	Changed from Low Service.
1	4	E... ..	Yonker Street.....	1285	S. of Lorain Street.....	Changed from Low Service.
1	4	E.....	Yonker Street.....	1688	S. of Lorain Street.....	Changed from Low Service.
1	4	E.....	Yonker Street.....	9	S. of Lorain Street.....	Changed from Low Service.
110	.....	.....	Total Hydrants set in 1897.			

HIGH SERVICE DISTRICT.—SCHEDULE SHOWING HYDRANTS MOVED IN 1897.

No.	Size.	Side.	Streets.	Feet.	Location.
1	4	S	Beacon Street.....	684	E. of Woodland Hills Avenue, moved from 603 ft. E. of Woodland Hills Av.
1	4	W	Elmwood Street.....	140½	S. of Worley Street, moved from 34 ft. S. of Worley Street.
1	4	S	Fremont Street.....	526¼	W. of Marcelline Avenue, moved from 622½ ft. W. of Marcelline Avenue.
1	4	N	Krakow Street.....	633	W. of Marcelline Avenue, moved from 392 ft. W. of Marcelline Avenue.
1	4	W	Wright Street.....	485	S. of Union Street, moved from 291 feet S. of Union Street.
5	.....	.....	Total Hydrants moved in 1897.	.....

HIGH SERVICE DISTRICT.—RECAPITULATION OF
FIRE HYDRANTS FOR 1897.

4-inch hydrants set in 1897.....	96
4-inch hydrants changed from Low Service.....	14
Hydrants in use December 31, 1896.....	738
	—
Total hydrants in use December 31, 1897.....	848
Of 848 hydrants in use 23 are 6-inch, 825 are 4-inch.	

HYDRANTS IN USE IN BOTH DISTRICTS DECEMBER 31, 1897.

Low Service District.....	4,864
High Service District.....	848
	—
In both Districts.....	5,712

LOW SERVICE DISTRICT.—SCHEDULE SHOWING SIZE, NUMBER AND LOCATION OF
STOP GATES SET IN 1897.

No.	Size.	Streets.	Side.	Location.	Remarks.
1	42	Hamilton Street.....	S	E. L. Lawrence Street.....	
1	42	Hamilton Street.....	S	3 feet east of Case Avenue.....	
1	42	Main Street.....	E.....	N. L. East River Street	
1	42	Spruce Street.....	E.....	5 feet south of West River Street.....	
4	42	Total.			
1	36	Ridge Avenue.....	W	S. L. Fisk Street.....	
1	36	Total.			
1	16	Case Avenue.....	W	N. L. Hamilton Street.....	
1	16	Case Avenue..	W	S. L. Hamilton Street.....	
1	16	Independence Street.....	W	S. L. Athey Avenue.....	
1	16	Independence Street.....	W	N. L. Fleet Street.....	
1	16	Pearl Street.....	E.....	S. L. Archwood Avenue	
1	16	Pearl Street.....	E.....	S. L. Denison Avenue	
6	16	Total.			

LOW SERVICE DISTRICT.—Schedule Showing Size, Number and Location of Stop Gates Set
in 1897.—Continued.

WATER WORKS.

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No.	Size.	Streets.	Side.	Location.	Remarks.
1	12	Archwood Street.....	24 feet west of E. L. of Pearl Street, 26 feet south of N. L. Archwood Avenue.	Connection Valve.
1	12	Canal Street.....	.....	56 feet south of N. L. Ohio Street and 17 feet east of W. L. Canal Street.	Connection Valve. 6-inch Valve taken out.
2	12	Total.			
1	10	Canal Street.....	W	S. L. Ohio Street	6-inch Valve taken out.
1	10	Canal Street.....	W	N. L. Ohio Street.....	4-inch Valve taken out.
1	10	Canal Street.....	W	S. L. Factory Street to the east.....	4-inch Valve taken out.
1	10	Denison Avenue.....	.....	24 feet west of E. L. Pearl Street, 13 feet south of N. L. Denison Avenue.	Connection Valve.
1	10	Fleet Street.....	N.	E. L. Independence Street.....	
1	10	Gordon Avenue.....	E	N. L. Storer Avenue.....	
1	10	Independence Street.....	W	S. L. Fleet Street.....	
1	10	Lake Street.....	S	W. L. Canfield Street to the south.....	4-inch Valve taken out.
1	10	Lake Street.....	N	E. L. Canfield Street.....	6-inch Valve taken out.
1	10	Lake View Avenue.....	E	N. L. Crawford Road.....	
1	10	Lake View Avenue.....	W	N. L. Moulton Street.....	
1	10	Lake View Avenue.....	W	S. L. Superior Street .....	.

LOW SERVICE DISTRICT.—Schedule Showing Size, Number and Location of Stop Gates Set
in 1897.—Continued.

No.	Size.	Streets.	Side.	Location.	Remarks.
1	10	Storer Avenue.....	N....	E. L. Gordon Avenue.....	
1	10	Storer Avenue.....	N....	E. L. Poplar Street.....	
1	10	Western Avenue	S	W. L. Reynolds Street	
15	10	Total.			
1	8	Ansel Avenue.....	E.....	S. L. Wade Park Avenue.....	
1	8	Ansel Avenue.. ..	E.....	N. L. Wade Park Avenue	
1	8	Crawford Road.....	S	W. L. Lake View Avenue.....	
1	8	Lake View Avenue.....	W	S. L. Crawford Road.....	
1	8	McBride Street.....	S	E. L. Willson Avenue.....	
1	8	Pearl Street.....	W	3 feet north S. L. Archwood Avenue.....	
6	8	Total.			
1	6	Alum Street.....	E.....	N. L. Storer Avenue.....	
1	6	Alum Street.....	E.....	S. L. Cotta Street.....	
1	6	Archer Street.....	W	N. L. Auburndale Avenue.....	

LOW SERVICE DISTRICT.—Schedule Showing Size, Number and Location of Stop Gates Set
in 1897.—Continued.

No.	Size.	Streets.	Side.	Location.	Remarks.
1	6	Auburdalo Avenue.....	S.....	E. L. Lake View Avenue.....	
1	6	Barbara Street.....	S.....	W. L. East Madison Avenue	
1	6	Bayne Street.. ..	N.....	W. L. Gordon Avenue.....	
1	6	Bellflower Avenue.....	N.....	W. L. Ford Place.....	
1	6	Beverly Street.....	S.....	W. L. North Aspen Street.....	
1	6	Bower Street.....	S.....	E. L. Willson Avenue	
1	6	Branch Avenue.....	S.....	W. L. Merchant Avenue.....	
1	6	Briggs Street.....	E.....	N. L. Lake Street	4-inch Valve taken out.
1	6	Burt Street.....	W.....	N. L. Quebec Street	
1	6	Canfield Street.....	W.....	S. L. Lake Street.....	4-inch Valve taken out.
1	6	Cotta Street.....	S.....	W. L. Gilbert Street	
1	6	Cotta Street....	S.....	E. L. Alum Street	
1	6	Davenport Street.....	S.....	W. L. Briggs Street.....	4-inch Valve taken out.
1	6	Derby Street.....	S.....	E. L. Ansel Avenue	
1	6	Duluth Street.....	S.....	W. L. East Madison Avenue	
1	6	Duluth Street.....	S.....	E. L. Giddings Avenue.....	
1	6	Ellen Street....	E.....	N. L. Bridge Street.....	

LOW SERVICE DISTRICT.—Schedule Showing Size, Number and Location of Stop Gates Set
in 1897.—Continued.

No.	Size.	Streets.	Side.	Location.	Remarks.
1	6	Ellendale Street.....	W.....	N. L. Lake View Avenue	
1	6	Evergreen Street.....	E.....	N. L. Roland Street.....	
1	6	Fir Street.....	S.....	W. L. Waverly Avenue.....	
1	6	Franklin Avenue.....	S.....	W. L. Columbus Street.....	4-inch Valve taken out.
1	6	Franklin Avenue.....	N.....	E. L. Malcolm Street.....	
1	6	Freeman Street.....	S.,....	W. L. Gehring Street.....	4-inch Valve taken out.
1	6	Freeman Street.....	S.....	E. L. Gehring Street.....	4-inch Valve taken out.
1	6	Gehring Street.....	E.....	S. L. Freeman Street.....	
1	6	Gilbert Street.....	E.....	N. L. Storer Avenue.....	
1	6	Gloyd Street.....	W.....	S. L. Hoffman Street.....	
1	6	Gregg Street.....	W.....	S. L. Leading Street.....	
1	6	Halsey Street.....	W.....	N. L. Quebec Street.....	
1	6	Harley Street.....	N.....	E. L. Soranton Avenue.....	
1	6	Harmon Street.....	E.....	N. L. Woodland Avenue.....	4-inch Valve taken out.
1	6	Helen Street.....	E.....	N. L. Western Avenue	
1	6	Herald Street.....	E.....	S. L. Dell Avenue.....	
1	6	Isabella Street.....	E.....	N. L. Storer Avenue	

LOW SERVICE DISTRICT.—Schedule Showing Size, Number and Location of Stop Gates Set
in 1897.—Continued.

No.	Size.	Streets.	Side.	Location.	Remarks.
1	6	Jennie Street.....	N.....	E. L. Scranton Avenue.....	
1	6	Korshaw Street.....	W.....	S. L. Fleet Street.....	
1	6	Lenox Street.....	E.....	N. L. Camden Street.....	
1	6	Magnet Street.....	S.....	W. L. Willson Avenue.....	
1	6	Mariner Street.....	W.....	N. L. Fairchild Street...	
1	6	Maurice Street.....	N.....	E. L. Willson Avenue.....	
1	6	Melvin Street.....	W.....	N. L. Orville Street.....	
1	6	Motley Street.....	E.....	S. L. West Madison Avenue.....	
1	6	Motley Street.....	E.....	1092 feet south of West Madison Avenue.....	
1	6	Motley Street.....	E.....	N. L. Western Avenue.....	
1	6	Muirson Street.....	E.....	N. L. Hamilton Street.....	
1	6	Muirson Street.....	E.....	S. L. Lake Street.....	
1	6	Mumford Place.....	S.....	W. L. Willson Avenue.....	
1	6	Newark Street.....	N.....	W. L. Rhodes Avenue.....	
1	6	Newark Street.....	N.....	E. L. Clifford Street.....	
1	6	Newark Street.....	N.....	W. L. Clifford Street.....	
1	6	N. Aspen Street.....	E.....	N. L. Lawn Street.....	

LOW SERVICE DISTRICT.—Schedule Showing Size, Number and Location of Stop Gates Set
in 1897.—Continued.

No.	Size.	Streets.	Side.	Location.	Remarks.
1	6	Penrose Street.....	W.....	N. L. Wierfield Street.....	
1	6	Poplar Street.....	E.....	S. L. Storer Avenue.....	
1	6	Poplar Street.....	E.....	N. L. Evans Street.....	
1	6	Poplar Street.....	E..	N. L. Storer Avenue.....	
1	6	Prescott Street.....	E.....	S. L. West Madison Avenue	
1	6	Prescott Street.....	E.....	1092 feet south of West Madison Avenue.....	
1	6	Prescott Street.....	E.....	N. L. Western Avenue.....	
1	6	President Street.....	E.....	S. L. Storer Avenue	
1	6	President Street.....	E.,...	845 feet south of Storer Avenue.....	
1	6	Prim Street.....	E.....	S. L. of Storer Avenue	
1	6	Reid Street.....	S.....	W. L. Petrie Street.....	
1	6	Renovo Street.....	N.....	W. L. Willson Avenue	
1	6	Republic Place.....	N.....	W. L. Republic Street.....	
1	6	Reynolds Street.....	E.....	S. L. Western Avenue.....	
1	6	Roland Street.....	N.....	W. L. Tod Street.....	
1	6	Rouse Street.....	S.....	W. L. Herald Street.....	
1	6	Rouse Street.....	S.....	E. L. Dickerman Street.....	

LOW SERVICE DISTRICT.—Schedule Showing Size, Number and Location of Stop Gates Set
in 1897.—Continued.

No.	Size.	Streets.	Side.	Location.	Remarks.
1	6	Russell Avenue.....	W.....	N. L. Whitney Avenue.....	
1	6	Scoville Lane.....	E.....	N. L. Detroit Street.....	
1	6	Scoville Lane.....	E.....	S. L. Lake Avenue.....	
1	6	Scoville Lane.....	W.....	N. L. Lake Avenue.....	
1	6	Storer Place.....	E.....	N. L. Storer Avenue.....	
1	6	Sumner Street.....	S.....	E. L. Erie Street.....	4-inch Valve taken out.
1	6	Sweeney Street.....	N.....	W. L. Willson Avenue...	
1	6	Washington Street.....	E.....	N. L. Center Street.....	
1	6	Washington Street.....	E.....	S. L. Center Street.....	4-inch Valve taken out.
1	6	W. Hermann Street.....	S.....	W. L. Smithfield Street.....	
1	6	W. River Street.....	W.....	1387 feet north of Columbus Street.....	
1	6	Willard Street.....	S.....	E. L. Wellington Avenue ...	
1	6	Willard Street.....	S.....	W. L. Davis Avenue.....	
1	6	Winslow Street.....	E.....	N. L. Center Street.....	
1	6	Woodlawn Ave.....	W.....	N. L. Wierfield Street.....	
86	6	Total.			

LOW SERVICE DISTRICT.—Schedule Showing Size, Number and Location of Stop Gates Set in 1897.—Concluded.

No.	Size.	Streets.	Side.	Location.	Remarks
1	4	Alfred Street.....	E.....	N. L. Little Street	
1	4	Factory Street.....	S.	E. L. Canal Street....	
1	4	Little Street.....	W.....	S. L. Little Street.....	
1	4	Orchard Place.....	N.....	W. L. Luverne Street	
1	4	Reynolds Street.....	E.....	N. L. Western Avenue	
1	4	Riverside Avenue.....	N.....	1 foot west of E. L. Gregg Street.....	
1	4	Riverside Avenue.....	S.....	E. L. Gregg Street.....	
1	4	Riverside Avenue.....	S.....	W. L. Gregg Street.....	
1	4	Riverside Avenue.....	N.....	W. L. Gregg Street.....	
1	4	Stevens Court.....	W.....	N. L. Mayfield Street	
1	4	Vega Alley.....	N.....	W. L. Rhodes Avenue.....	
151	4	For Hydrants.			
162	4	Total.			

LOW SERVICE DISTRICT.—SCHEDULE OF STOP GATES TAKEN OUT AND CHANGED
IN 1897.

No.	Size Taken Out.	Size Set.	Streets.	Side.	Location.
1	6	10	Canal Street.....	W.....	On S. L. Ohio Street.
1	6	12	Canal Street.....	W.....	On 56 ft. S. of N. L. Ohio St. and 17 ft. E. of W. L. Ohio Street.
1	6	10	Lake Street.....	N.....	On E. L. Canfield Street.
3	6	.....	Total.		
1	4	6	Briggs Street.....	E.....	On N. L. Lake Street.
1	4	10	Canal Street	W.....	On S. L. Factory Street.
1	4	10	Canal Street.....	W.....	On N. L. Ohio Street.
1	4	6	Canfield Street.....	W.....	On S. L. Lake Street.
1	4	6	Davenport Street.....	S.....	On W. L. Briggs Street.
1	4	6	Franklin Avenue.....	S.....	On W. L. Columbus Street.
1	4	6	Freeman Street	S.....	On W. L. Gehring Street.
1	4	6	Freeman Street.....	S.....	On E. L. Gehring Street.
1	4	6	Harmon Street.....	E.....	On N. L. Woodland Avenue.

LOW SERVICE DISTRICT.—Schedule of Stop Gates Taken Out and Changed in 1897.—Concluded.

No.	Size Taken Out.	Size Set.	Streets.	Side.	Location.
1	4	10	Lake Street.....	S.....	On W. L. Canfield Street to the South.
1	4	6	Sumner Street.....	S	On E. L. Erie Street.
1	4	6	Washington Street.....	E.....	On S. L. Center Street
19	4	.....	With Hydrants.....		
31	4	.....	Total.		
10	3	.....	With Hydrants.		

LOW SERVICE DISTRICT.—RECAPITULATION OF STOP GATES FOR 1897.

Water Way in inches.....	42	36	30	24	20	16	12	10	8	6	4	3	Total.
In use previous to 1897	12	56	74	13	24	92	137	227	698	2625	4857	54	8869
Set in 1897.....	4	1	.....	.....	.....	6	2	15	6	86	162	.....	282
Taken out in 1897.....	16	57	74	13	24	98	139	2.2	704	2711	5019	54	9151
	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	31	10	44
Total in use December 31st, 1897...	16	57	74	13	24	98	139	242	704	2708	4988	44	9107

HIGH SERVICE DISTRICT.—SCHEDULE SHOWING SIZE, NUMBER AND LOCATION OF
STOP GATES SET IN 1897.

No.	Size.	Streets.	Side.	Location.	Remarks.
1	30	Denison Avenue.....	S.....	213¼ ft. E. of O. L. of Ridge Avenue.....	Connection Valve.
1	30	Total.			
1	24	Denison Avenue Extension...	W.....	157 ft. S. of Denison Avenue.....	
1	24	Total.			
1	16	Denison Avenue.....	.....	{ 216 ft. E. of C. L. of Ridge Avenue and 4 ft. S. of C. L. Den- ison Avenue..... }
1	16	Total.			
1	12	Denison Avenue.....	S.....	W. L. Wellington Avenue.....	
1	12	Denison Avenue... ..	S.....	E. L. Wellington Avenue....	
1	12	Denison Avenue.....	S.....	W. L. Minton Street.....	
1	12	Denison Avenue.....	S.....	971 ft. E. of Yorker Street.....	
1	12	Denison Avenue.....	N.....	985 ft. W. of Gordon Avenue.....	
1	12	Denison Avenue.....	N.....	W. L. President Street.....	

HIGH SERVICE DISTRICT.—Schedule Showing Size, Number and Location of Stop Gates Set
in 1897.—Continued.

No.	Size.	Streets.	Side.	Location.	Remarks.
1	12	Denison Avenue.....	N.....	W. L. Wyoming Street.....	
1	12	Denison Avenue.....	N.....	W. L. Milford Street.....	
1	12	Denison Avenue.....	N.....	210 ft. E. of C. L. Ridge Avenue.....	
1	12	Denison Avenue.....	N.....	223½ ft. E. of C. L. Ridge Avenue.....	
1	12	Denison Avenue.....	S.....	W. L. Ridge Avenue.....	
1	12	Ridge Avenue..	W.....	N. L. Denison Avenue.....	
1	12	Ridge Avenue....	E.....	58 ft. S. of C. L. Denison Avenue.....	
13	12	Total.			
1	10	Bessemer Avenue.....	N.....	W. L. E. Madison Avenue.....	
1	10	Harvard Street.....	N.....	W. L. Warwick Street.....	
1	10	Harvard Street.....	N.....	E. L. Warwick Street.....	
1	10	Turney Avenue.....	W.....	S. L. Force Street.....	
4	10	Total.			

HIGH SERVICE DISTRICT.—Schedule Showing Size, Number and Location of Stop Gates Set in 1897.—Continued.

No.	Size.	Streets.	Side.	Location.	Remarks.
1	8	Fremont Street.....	S.....	W. L. Marcelline Avenue.....	
1	8	Lapier Street.....	W.	554 ft. N. of Lafin Street.....	
1	8	Lapier Street.....	W.....	N. L. Denison Avenue.....	
1	8	Martindale Street.....	E.....	S. L. Denison Avenue.....	
1	8	Virginia Street	E.....	S. L. Denison Avenue.....	
1	8	Warwick Street....	W.....	S. L. Harvard Street.....	
1	8	Wellington Avenue.....	E.....	N. L. Denison Avenue.....	
1	8	Wellington Avenue.....	E.....	S. L. Denison Avenue.....	
8	8	Total.			
1	6	Ætna Street.....	S.....	E. L. Woodland Hills Avenue.....	
1	6	Alum Steect.....	E.....	N. L. Denison Avenue.....	
1	6	Baldwin Street.....	W.....	S. L. Quincy Street.....	
1	6	Bleeker Street.....	E.....	N. L. Denison Avenue.....	
1	6	Bristol Street.....	S.....	W. L. Beckwith Avenue.....	
1	6	Clement Street.....	N.....	E. L. Reade Street	

HIGH SERVICE DISTRICT.—Schedule Showing Size, Number and Location of Stop Gates Set in 1897.—Continued.

No.	Size.	Streets.	Side.	Location.	Remarks.
1	6	Clement Street.....	N.....	W. L. Biasell Street.....	
1	6	Covert Street.....	N.....	E. L. Marcelline Avenue.....	
1	6	Elmwood Street.....	W.....	N. L. Ottawa Street.....	
1	6	Goodman Street.....	S.....	W. L. Warner Road.....	
1	6	Greenleaf Street	W.....	S. L. Harvard Street ...	
1	6	Greenleaf Street.....	W.....	N. L. Henrietta Street.....	
1	6	Heath Street.....	S.....	E. L. Woodland Hills Avenue.....	
1	6	Henrietta Street.....	N.....	W. L. Markham Street.....	
1	6	Hoyt Court	E.....	S. L. Denison Avenue.....	
1	6	Isabella Street.....	E.....	N. L. Denison Avenue.....	
1	6	Lapier Street.....	W.....	S. L. Storer Avenue.....	
1	6	Lapier Street.....	W.....	N. L. Evans Street.....	
1	6	Leopold Street.....	W.....	S. L. Harvard Street.....	
1	6	Leopold Street.....	W.....	N. L. Finney Street.....	
1	6	Marshall Street.....	S.....	W. L. Woodland Hills Avenue.....	
1	6	Milford Street.....	W.....	N. L. Denison Avenue.....	
1	6	Minton Street.....	E.....	N. L. Denison Avenue.....	

HIGH SERVICE DISTRICT.—Schedule Showing Size, Number and Location of Stop Gates Set in 1897.—Continued.

No.	Size.	Streets.	Side.	Location.	Remarks.
1	6	Ogden Street.....	E.....	5 ft. S. of Denison Avenue.....	
1	6	Phillips Street.....	W.....	N. L. Union Street.....	
1	6	President Street.....	E.....	N. L. Denison Avenue.....	
1	6	Prim Street.....	E.....	N. L. Denison Avenue.....	
1	6	Richard Street.....	E.....	N. L. Denison Avenue.....	
1	6	Ritchie Street.....	E.....	N. L. Denison Avenue.....	
1	6	Ruggles Street.....	W.....	S. L. Pratt Street.....	
1	6	Sage Street.....	E.....	N. L. Denison Avenue.....	
1	6	Sears Street.....	E.....	S. L. Storer Avenue.....	
1	6	Sears Street.....	E.....	N. L. Denison Avenue.....	
1	6	Sophia Street.....	N.....	W. L. Woodland Hills Avenue.....	
1	6	Sophia Street.....	N.....	E. L. Wilhelm Street.....	
1	6	Wilhelm Street.....	E.....	N. L. Sophia Street.....	
1	6	Worley Street.....	S.....	W. L. Elmwood Street.....	

HIGH SERVICE DISTRICT.—Schedule Showing Size, Number and Location of Stop Gates Set in 1897.—Concluded.

No.	Size.	Streets.	Side.	Location.	Remarks.
1	6	Worley Street.....	S.. ...	E. L. Elmwood Street.....	
1	6	Wright Street.....	W.....	N. L. Etna Street.....	
1	6	Wyoming Street.....	E.....	N. L. Denison Avenue.....	
1	6	Yonker Street.....	E	N. L. Denison Avenue.....	
41	6	Total.			
103	4	For Hydrants.			

HIGH SERVICE DISTRICT.—RECAPITULATION OF STOP GATES FOR 1897.

Water Way in Inches.....	30	24	20	16	12	10	8	6	4	Total.
In use previous to 1897.....	17	18	10	18	56	77	59	310	736	1301
Set in 1897.....	1	1	.....	1	13	4	8	41	109	178
Total in use December 31st, 1897.....	18	19	10	19	69	81	67	351	845	1479

STOP GATES IN USE IN BOTH DISTRICTS.

In Low Service District	9,107
In High Service District	1,479
In both Districts.....	10,586

SCHEDULE OF PIPE LOWERED, RAISED, MOVED, RECALKED AND RELAID ON
HIGHER ELEVATION IN BOTH DISTRICTS IN 1897.

Size.	Street.	Between What Points.	No. of Feet Lowered.	No. of Feet Raised.	No. of Feet Moved.	No. of Feet Recalked.	No. Feet of Pipe Laid on Higher Elevation in Place of Pipe Abandoned.
6	Alexander Avenue.....	From N. L. Bower Street south	337	.....	.....	.....	.....
6	Bismarck Avenue.....	From 181 feet south of Woodland Avenue south	1,011	.....	.....	.....	.....
6	College Street	From 13 feet west of Professor Street to E. L. Professor Street.	89	.....	.....	.....	.....
8	Fairfield Street.....	From 51 feet west of E. L. Merchant Avenue to 32 feet east of W. L. Pelton Avenue.....	462	.....	.....	.....	.....
8	Gordon Avenue....	From N. L. Detroit Street to pipe in Herman Street, moved from east to west side of street.....	.....	.....	844	.....	.....
6	Harmon Street	From 15 feet north of Woodland Avenue north.....	393	.....	.....	.....	.....
6	Harmon Street.....	From S. L. Central Avenue to N. L. Judd Street.....	238	.....	.....	.....	.....
24	Harvard Street.....	From 12 feet west of E. L. Independence Street east, moved north to new occupation of street.....	.....	.....	367	.....	.....
6	Julia Street	From 8-inch pipe in Willson Avenue west.....	.....	60	.....	.....	111
6	La Grange Street.....	From 12 feet east of Ingleside Avenue east.....	212	.....	.....	.....	.....
6 and 8	Literary Street.....	From 27 feet east of Professor Street to 21 feet west of Professor Street.....	131	.....	.....	.....	.....
6 and 8	Professor Street	From 22 feet west of E. L. Pelton Avenue to E. L. College Street.....	869	.....	.....	.....	.....
6	Scranton Avenue.....	From pipe in Holnden Avenue to pipe in Rowley Street.....	729	.....	.....	.....	.....
6	Scranton Avenue.....	From 110 feet north of Aiken Avenue to 12 feet south of Meyer Avenue.....	1,816	.....	.....	.....	.....

SCHEDULE OF PIPE LOWERED, RAISED, MOVED, RECALKED AND RELAID ON
HIGHER ELEVATION IN BOTH DISTRICTS IN 1897.—Concluded.

Size.	Street.	Between What Points.	No. of Feet Lowered.	No. of Feet Raised.	No. of Feet Moved.	No. of Feet Recalked.	No. Feet of Pipe Laid on Higher Elevation in Place of Pipe Abandoned.
6	Seelye Avenue	From 130 feet south of Woodland Avenue south.....	307	.....	.....	.....	.....
8	Waverly Avenue.....	From 67 feet north of Bridge Street north.....	212	.....	.....	.....	.....
8	Willson Avenue.....	From N. Y., P. & O. R. R. to 19 feet north of S. L. Bower Street.....	351	59	.....	2,046	.....
8	Willson Avenue.....	From 61 feet south of Woodridge Avenue to 128 feet north of Julia Street.....	.....	.....	.....	.....	309
		Totals.....	7,157	119	1,211	2,046	420

168 connections were lowered, amounting to 3,182 feet.

1896	Amount Received for Permits Issued.	Equals This Number of Permits.	1897	Amount Received for Permits Issued.	Equals This Number of Permits.
	VALUE.			VALUE.	
January	\$ 162 00	108	January	\$ 217 50	145
February	190 50	127	February	138 00	92
March	322 50	215	March	601 50	401
April	957 00	638	April	793 50	529
May	1,071 00	714	May	934 50	623
June	916 50	611	June	849 00	566
July	924 00	616	July	694 50	463
August	648 00	432	August	814 50	543
September	676 50	451	September	709 00	473
October	566 50	377	October	640 50	427
November	510 00	340	November	490 50	327
December	490 50	327	December	777 00	518
Total	\$7,434 00	4,956	Total	\$7,660 00	5,107

Total for 1897\$7,660 00 equals 5,107 permits
Total for 1896\$7,434 00 equals 4,956 permits

\$ 226 00 151

Yours truly,
H. J. WENDORFF,
Permit Clerk.

THE FOLLOWING NUMBER OF COMPLAINTS WERE
RECEIVED DURING THE YEAR 1897 WHICH RE-
QUIRED FROM ONE TO SEVEN VISITS.

Lawn Sprinkling—written notices.....	885
Verbal Notices—about	300
Water Troughs.....	22
Stop Boxes to be lowered.....	122
Closets out of order.....	38
Wasting Water.....	104
Stop Cock Boxes leaking.....	67
Broken Hydrants.....	56
Getting water from neighbors.....	53
Giving water to neighbors.....	33
Ordered off for wasting water during 1897.....	120

We have also had seven people arrested and convicted for doing plumbing work without a license.

Have accompanied the pay wagon every trip during the past year.

Have measured all ice rinks.

Have inspected all watering troughs.

Have looked after all water used for building purposes where it has not been paid in the Building Inspector's Office. We found from 50 to 100 parties who were using water for building purposes who were not paying for the same, and have made them settle with the Water Works Department.

You will find all the above complaints on our daily report blanks which were delivered to your office every day.

Have also located street signs in nearly 4,000 places around the city.

Have inspected all sprinkling wagons in the city.

Respectfully submitted,

W. H. NEWTON,
GEO. A. BAILEY.

GEORGE R. WARDEN,

Director of Public Works.

I respectfully submit the following report of the monthly collections for water for building purposes during the year 1897 :

January.....	\$ 122 72
February	165 20
March.....	196 37
April.....	327 88
May.....	245 03
June	346 85
July.....	260 85
August.....	282 19
September.....	334 83
October.....	338 81
November.....	215 41
December.....	200 65
<hr/>	
Total.....	\$3,036 79

An estimate of \$388.25 went through meters.

A. M'CLURE, *Clerk.*

PERMITS ISSUED DURING THE

1897.	Connections and Repairs Water. Number.	Amount at \$1.50 Each.	Connections and Repairs Sewers. Number.	Amount at \$1.50 Each.	Water and Gas Free.	Repairs Sewers Free.	Obstruction Free.	Pavement, Water.	Amount.
January	67	\$ 100 50	68	\$ 102 00	139	13	12	6½	\$ 59 44
February	50	75 00	34	51 00	149	18	25	5	43 20
March	170	255 00	218	327 00	262	40	51	8	47 40
April	222	333 00	294	441 00	372	56	58	3½	28 08
May.....	240	360 00	369	553 50	324	51	64	7½	71 83
June.....	261	391 50	286	429 00	314	51	59	10½	73 77
July.....	207	310 50	238	357 00	332	31	54	6½	50 50
August	266	399 00	254	381 00	322	112	55	13	109 16
September.....	233	349 50	224	336 00	294	44	65	8½	64 27
October.....	217	325 50	192	288 00	373	42	62	11	86 34
November.....	161	241 50	155	232 50	312	50	38	7	79 11
December.....	263	394 50	245	367 50	227	43	20	6	74 10
Total	2,357	\$3,535 50	2,577	\$3,864 50	3,420	551	563	93	\$787 20

*Amount collected for building purposes—Water, mostly old accounts, (\$1,061.31).

YEAR ENDING DECEMBER 31, 1897.

Movers Buildings, Etc.	Pavement, Sewer,	Amount.	Kinds Issued.	Number Issued.	Amount.	No. Issued, 1896.	Amount, 1896.	Comparison.
1	3½	34 24	Water	2,357	\$ 3,535 50	2,278	\$ 3,417 00	329 more permits issued. \$527.43 more, excluding old account, \$1,061.31.*
2	2	10 92	Sewer.....	2,577	3,864 50	2,503	3,754 50	
1	5	34 24	Water and Gas.....	3,420	.....	3,281	.....
2	9½	70 14	Sewer, Free.....	551	.....	503	.....
1	6½	47 63	Obstruction.....	563	.....	538	.....
2	8½	70 16	Pavement, Water....	93	787 20	93²	689 54²	
....	11½	101 46	Pavement, Sewer....	79	713 78	81²	561 35²	
....	10	122 63	Sprinkling.....	60	2,090 00	66	2,103 00	
. .	7½	71 40	Movers	9	.....	36	.....
....	7	62 44	Water for Bldg. purp's .....	.....	61 85	.....	*1,061 31
....	4	32 56	.....	.....	.....	.....	.....
....	4	55 96	.....	.....	.....	.....	.....
9	79	\$ 713 78	9,709	\$11,652 83	9,380	\$11,586 71

H. J. WENDORFF, *Permit Clerk.*

DEPARTMENT OF PUBLIC WORKS.

(STREETS.)

Report of Superintendent.

Report of the Superintendent of Streets.

CLEVELAND, O., January 18, 1898.

HON. GEO. R. WARDEN,

Director of Public Works :

DEAR SIR :—I have the honor to herewith submit to you the Annual Report of the Street Department for 1897.

In order to simplify the report it is divided into four tables.

Table No. 1 contains the "Cleaning and Rounding" of unpaved streets, paving, carpenter work, and laying crosswalks, etc. We have "Cleaned and Rounded" (col. 1, table 1) 4,448,997 lineal feet of dirt streets, equal to 842.6 miles; made and repaired 16,551 feet of wooden boxes and drains, and laid and relaid 45,231 feet of crosswalks.

Table No. 2 (Cleaning Paved Streets). We have cleaned 38,707.64 squares of 10,000 feet per square, equal to 2,107.4 miles of pavement.

Tables 3 and 4 contain sewer district repairs and merchandise for same, and while the expense on this work is very much lower than in 1896, it has been augmented by the breaks on Forest street, which cost the district \$1,408.65. We have also worked men from the Bethel Associated Charities and from the Infirmary of the Department of Charities and Correction 9,787 days and cleaned 27,696 crosswalks.

Respectfully,

JAS. P. MURRAY,

Superintendent of Streets.

Under the head of General Repairs will be found all money expended by the Department for the following purposes, viz.: Puddling, Streets, Cleaning Catch Basins, Carpenter Repairs on Gutter Boxes, Drains, Stairs, etc., Paving Gutters and Paving Repairs, and Laying and Relaying Crosswalks.

Puddling Streets.....	\$3,488 50	
Cleaning Catch Basins.....	5,996 46	
Carpenter Labor on Drains and Boxes.....	3,605 39	
Paving Gutters and Paving Repairs.....	8,157 63	
Laying and Relaying Crosswalks.....	6,266 00	
General Repairs.....		\$ 27,513 98
Rounding, Cleaning and Filling.....		54,557 27
Table No. 1.....		\$ 82,071 25
Table No. 2.....		41,559 02
Merchandise per Bills Rendered.....		8,994 97
Salary of Officers		2,966 66
Salary of Janitor.....		571 50
Expenditures for 1897 from Appropriation.....		\$ 136,163 40
Table No. 3.....		8,186 73
Table No. 4.....		4,684 39
Total cost of work done through Department.....		\$ 149,034 52

TABLE NO. 1.

This Table shows cost of Cleaning, Rounding and Filling of Streets and General Repairs. Showing nature and Cost of all Repairs to Streets under Street Sub-division, Department of Public Works, for the year ending December 31, 1897.

Streets.	Cleaning. Rounding and Filling.	General Repairs.	Total.
A.....	\$ 19 01	\$ 14 81	\$ 33 82
Aaron.....	61 75	1 96	63 71
Abbey.....	69 75	9 80	79 55
Aberdeen.....	19 02	.....	19 02
Abram.....	27 76	22 80	50 56
Academy.....	38 50	2 45	40 95
Addison.....	5 00	.....	5 00
Ackley.....	254 91	18 97	273 88
Acme.....	5 75	.....	5 75
Ætna.....	153 71	58 16	211 87
Adelbert.....	20 00	12 25	32 25
Adolpha.....	31 40	25 26	56 66
Aiken.....	62 89	.....	62 89
Alabama.....	22 78	15 40	38 18
Adolph.....	9 26	.....	9 26
Alanson.....	22 50	15 39	37 89
Almira.....	20 77	.....	20 77
Allen.....	7 52	13 73	21 25
Alleys and courts, East Side.....	2,020 00	125 70	2,145 70
Alleys and courts, West Side.....	634 59	47 84	682 43
Alum.....	52 05	6 64	58 69
Ambler.....	59 58	98	60 56
Amesbury.....	55 43	.....	55 43
Amos.....	10 00	4 41	14 41
Andrew.....	.....	12 01	12 01
Ansel.....	157 84	17 92	175 76
Anderson.....	36 00	7 00	43 00

TABLE No. 1.—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Anson	\$ 26 00	\$ 2 94	\$ 28 94
Apple.	13 71	1 47	15 18
Arch.....	57 06	.....	57 06
Archwood	90 58	48 57	139 15
Archer.....	10 00	.....	10 00
Arlington	65 32	1 47	66 79
Armitage.....	90 59	6 97	97 56
Arthur	19 00	.....	19 00
Ash.....	8 50	1 96	10 46
Ashbel.....	24 00	.....	24 00
Asmus.	6 00	.....	6 00
Aspen	9 26	4 39	13 65
Astor.....	12 00	98	12 98
Asylum.....	19 01	4 41	23 42
Atlantic	59 55	17 33	76 88
Atwater	18 00	.....	18 00
Auburn.....	86 65	26 02	112 67
Aust.....	.....	98	98
Avalon	16 25	.....	16 25
Auburndale	25 00	.....	25 00
Axtell.....	116 58	34 42	151 00
Abbey Dump.....	450 00	.....	450 00
Avon .....	.....	2 45	2 45
B.....	51 91	1 52	53 43
Baden	7 00	13 47	20 47
Bailey .....	.....	3 92	3 92
Bayley	15 00	.....	15 00
Baker	5 00	.....	5 00
Baldwin	25 00	.....	25 00
Ballou.....	.....	20 62	20 62
Bancroft	8 00	.....	8 00
Bank	39 72	71 87	111 59

TABLE NO. 1.—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Barrett	\$ 15 26	\$.....	\$ 15 26
Barber	118 00	67 82	185 82
Berea.....	31 02	20 55	51 57
Barkwill.....	258 22	39 58	297 80
Batavia.....	5 50	.....	5 50
Baxter	6 00	34 54	40 54
Bayne.....	32 35	3 26	35 61
Bazetta.....	69 84	70 71	140 55
Beaver	20 00	1 96	21 96
Beacon	6 00	.....	6 00
Beaumont	19 27	.....	19 27
Becker	89 34	12 52	101 86
Beckwith.....	90 53	3 29	93 82
Beckman.....	5 01	.....	5 01
Beecher	40 54	1 96	42 50
Beechwood	77 89	1 96	79 85
Benton	26 00	.....	26 00
Belden	164 04	98	165 02
Belfast	10 00	.....	10 00
Bell	38 00	17 54	55 54
Beech	32 25	11 27	43 52
Beeman	6 00	.....	6 00
Bennington.....	8 25	.....	8 25
Belmont.....	13 51	.....	13 51
Benham	57 50	.....	57 50
Berg.....	68 26	34 11	102 37
Bergen	8 00	11 90	19 90
Berghoff.....	11 00	.....	11 00
Berne	10 00	.....	10 00
Berlin	28 00	.....	28 00
Bertram	94 89	1 96	96 85

TABLE No. 1.—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Bessemer.....	\$ 169 70	\$ 2 54	\$ 172 24
Berry.....	13 90	.....	13 90
Berwick.....	37 50	.....	37 50
Beyerle.....	69 08	7 50	76 58
Beulah.....	17 28	.....	17 28
Bigelow.....	14 53	72 76	87 29
Bismarck.....	22 02	.....	22 02
Birch.....	38 59	26 83	65 42
Bissell.....	30 94	.....	30 94
Blanche.....	59 07	.....	59 07
Blatt.....	7 09	.....	7 09
Blair.....	4 00	.....	4 00
Blaine.....	15 00	.....	15 00
Bleeker.....	33 52	.....	33 52
Bolivar.....	28 34	494 47	522 81
Bond.....	5 50	14 59	20 09
Bolton.....	189 55	33 06	222 61
Booth.....	20 00	8 29	28 29
Bonna.....	5 50	.....	5 50
Bosworth.....	25 00	.....	25 00
Bradford.....	14 50	25 19	39 69
Bragdon.....	9 55	.....	9 55
Brainard.....	32 77	30 26	63 03
Branch.....	13 50	8 33	21 83
Brayton.....	15 13	1 47	16 60
Brevier.....	11 28	.....	11 28
Brenton.....	20 79	2 13	22 92
Brecksville Road.....	86 66	.....	86 66
Bridgeview.....	.....	116 39	116 39
Bridge.....	265 65	46 82	312 47
Brighton.....	94 62	13 53	108 15

TABLE No. 1.—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
British.....	\$ 10 00	\$ 98	\$ 10 98
Brinsmade.....	24 29	.....	24 29
Bright.....	15 00	.....	15 00
Broadway.....	674 42	582 24	1,256 66
Brightwood	28 25	.....	28 25
Brock.....	9 50	.....	9 50
Brooker.....	43 01	2 94	45 95
Brookfield.....	42 75	.....	42 75
Brooklyn	143 53	14 98	158 51
Broadwell	18 42	.....	18 42
Broom Alley.....	.....	125 20	125 20
Browning.....	15 28	.....	15 28
Brunner.....	6 50	.....	6 50
Brownell .....	.....	8 41	8 41
Brunswick.....	73 84	3 92	77 76
Buckeye.....	4 54	4 41	8 95
Buckley	39 31	.....	39 31
Buffalo	20 00	.....	20 00
Buhrer.	58 46	8 16	66 62
Burwell.....	.....	3 42	3 42
Burke.....	9 00	.....	9 00
Burns.....	8 00	.....	8 00
Burt	20 28	.....	20 28
Burton Avenue.....	31 80	.....	31 80
Burton.....	197 77	160 27	358 04
Burwick.....	17 25	.....	17 25
Burwell.....	35 00	13 43	48 43
Bush Avenue.....	22 00	.....	22 00
Bush Street.....	27 05	2 98	30 03
Buell.....	16 76	1 47	18 23
Bristol.....	24 04	.....	24 04

TABLE NO. 1.—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
C	\$ 8 95	\$.....	\$ 8 95
Cable	29 04	.....	29 04
Calumet .....	.....	1 96	1 96
Calvert	4 00	.....	4 00
Campbell	4 50	6 00	10 50
Camden	34 97	2 38	37 35
Canal	142 75	37 43	180 18
Canfield	16 87	2 45	19 32
Cannon	5 00	.....	5 00
Canton	104 85	4 01	108 86
Capitol	45 34	.....	45 34
Carran	30 54	10 81	41 35
Carrabelli	108 84	2 45	111 29
Carroll	43 26	2 45	45 71
Carter .....	.....	13 53	13 53
Carr	4 50	.....	4 50
Carry	8 00	.....	8 00
Carter	105 62	13 53	119 15
Catharine .....	.....	17 52	17 52
Case	120 23	210 52	330 75
Cass .....	.....	2 52	2 52
Case Dump	468 00	3 00	471 00
Castle	34 75	12 74	47 49
Catawba	10 00	2 94	12 94
Catharina	5 50	.....	5 50
Cedar	79 43	272 83	352 26
Cemetery	28 49	4 41	32 90
Center	86 00	40 58	126 58
Central ..	171 01	140 20	311 21
Central Viaduct .....	.....	8 33	8 33
Chadwick	52 82	.....	52 82

TABLE NO. 1.—Continued.

Streets.	Cleaning. Rounding and Filling.	General Repairs.	Total.
Chamberlain.....	\$ 24 50	\$ 47 57	\$ 72 07
Chambers.....	15 29	7 75	23 04
Champa.....	14 01	5 50	19 51
Champlain.....	15 00	33 80	48 80
Chapel.....	25 00	1 96	26 96
Chandler.....	.....	1 96	1 96
Chard.....	22 02	.....	22 02
Charles.....	29 00	98	29 98
Chatham.....	64 04	107 42	171 46
Cherry.....	28 78	4 96	33 74
Cheshire.....	15 00	.....	15 00
Chestnut.....	.....	13 48	13 48
Chester.....	18 00	.....	18 00
China.....	2 50	.....	2 50
Chestnut Hill.. ..	14 15	.....	14 15
Chestnut Ridge Road.....	30 00	.....	30 00
Chestnut Dale.....	7 53	.....	7 53
Church.....	25 57	1 96	27 53
City Stairs.....	148 62	.....	148 62
Claasen.....	9 00	23 83	32 83
Clara... ..	6 53	.....	6 53
Claremont.....	10 04	98	11 02
Clark.....	505 73	203 63	709 36
Clarence Lane.....	14 76	3 52	18 28
Clarkwood.....	10 00	.....	10 00
Clifford.....	.....	2 01	2 01
Cliff.....	31 28	8 99	40 27
Clifton.....	21 00	21 34	42 34
West Clinton.....	.....	5 88	5 88
Clinton.....	.....	78 68	78 68
Clinton Park.....	6 00	.....	6 00
Clover.....	10 03	.....	10 03

TABLE NO. 1.—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Cloud.....	\$ 8 53	\$.....	\$ 8 53
Cobleigh.....	4 00	.....	4 00
Colfax.....	71 54	47 82	119 64
Colgate.....	96 47	.....	96 47
College.....	8 50	70 20	78 70
Collister.....	35 28	.....	35 28
Colorado.....	42 41	9 79	52 20
Columbus.....	8 50	161 71	170 21
Commonwealth.....	.....	14 20	14 20
Commodore.....	.....	41 76	41 76
Commercial.....	59 21	.....	59 21
Compton.....	.....	2 50	2 50
Concord.....	.....	4 00	4 00
Congress.....	33 62	15 99	49 61
Conrad.....	15 50	19 53	35 03
Conover.....	26 28	37 50	63 78
Cook.....	13 30	9 31	22 61
Cornelia.....	18 54	.....	18 54
Cornell.....	20 00	37 36	57 36
Corwin.....	11 00	.....	11 00
Cottage.....	51 99	.....	51 99
Courtland.....	107 60	10 70	118 30
Crane.....	2 00	.....	2 00
Crawford Road.....	101 83	17 76	119 59
Creighton.....	14 90	1 47	16 37
Crosby.....	5 00	7 50	12 50
Cross.....	57 00	36 74	93 74
Croton.....	49 26	22 54	71 80
Crowell.....	10 00	.....	10 00
Crown.....	.....	6 26	6 26
Crumb.....	.....	14 47	14 47

TABLE No. 1.—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Cudell	\$ 12 00	\$.....	\$ 12 00
Cullison		6 37	6 37
Curtiss	47 86	17 44	65 30
Cutler		3 43	3 43
Czar	44 44	1 96	46 40
City Hall yard.....	14 64	12 00	26 64
Cuyahoga.....		1 96	1 96
D Street.....		4 50	4 50
Dare	34 00	32 04	66 04
Daisy.....	53 87		53 87
Dan	10 76		10 76
Dana	38 79	98	39 77
Danforth.....	35 00	1 47	36 47
Dalton	15 00		15 00
Darlington	10 00		10 00
Dartmouth.....	10 00		10 00
Davenport.....	79 78	13 67	93 45
Davidson		14 03	14 03
Davies.....		9 52	9 52
Davis Street yard	927 03	96 90	1,023 93
Davis, East Side.....	70 60		70 60
Dayton	4 54		4 54
Dean	9 26		9 26
Dearborn.....	30 78		30 78
Decker	69 56	2 94	72 50
Deckand	34 26	1 50	35 76
Delmars		18 50	18 50
Deering		1 96	1 96
Dell		1 96	1 96
Delaware.....	10 27	2 94	13 21
Dellenbaugh	23 00		23 00
Denison	251 39	126 27	377 66

TABLE NO. 1.—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Dent.....	\$ 11 53	\$.....	\$ 11 53
Dercum.....	5 50	.....	5 50
Detroit	655 81	478 39	1,134 20
Devine.....	16 00	.....	16 00
Dibble	10 00	.....	10 00
Diemer	12 25	.....	12 25
Dickerman	33 03	.....	33 03
Dike	6 00	98	6 98
Dille	18 50	.....	18 50
Division.....	60 55	4 90	65 45
Doan	280 55	15 47	296 02
Dodge.....	30 07	22 62	56 09
Donald	18 50	.....	18 50
Dolloff.	17 27	15 99	33 26
Dorchester.....	.....	2 94	2 94
Douglass.....	11 84	.....	11 84
Douse.....	73 16	98	74 14
Dove Lane.....	4 79	.....	4 79
Dover.....	19 76	6 86	26 62
Dryden	20 77	.....	20 77
Dower.....	.....	4 80	4 80
Drake.....	32 04	11 29	43 33
Duane	30 02	11 12	41 14
Dudley	36 30	.....	36 30
Dunham.....	59 63	31 83	91 46
Duke	4 00	.....	4 00
Dupont.....	7 00	.....	7 00
Douglas .....	.....	6 37	6 37
Eaton	12 70	.....	12 70
Eagle.....	35 75	3 94	39 69
East Chestnut.....	.....	13 51	13 51
East Clark....	.....	90 70	90 70

TABLE NO. 1.—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
East End....	\$ 47 03	\$.....	\$ 47 03
East Madison.....	301 27	12 52	313 79
East Clark.....	64 08	.....	64 08
Easton	12 00	.....	12 00
East Prospect.....	12 00	11 76	23 76
Eastdale.....	33 54	.....	33 54
East View.....	36 41	20 94	57 35
Echo	5 00	.....	5 00
Edgehill Road.....	20 00	.....	20 00
Edson .....	.....	35 04	35 04
Edna	5 50	.....	5 50
Edgar.....	8 00	.....	8 00
Edgewater.....	29 08	11 47	40 55
Edgewood Place.....	32 04	.....	32 04
Edwards.....	32 54	.....	32 54
Eglindale.....	15 00	.....	15 00
Elk	7 00	7 14	14 14
Ellen	13 54	.....	13 54
Elizabeth.....	34 54	.....	34 54
Ellsworth.....	66 37	11 96	78 33
Elm.....	115 97	24 22	140 19
Elmo	53 02	.....	53 02
Elmwood	15 69	.....	15 69
Elton	26 00	.....	26 00
Emerson.....	14 00	.....	14 00
Emmett.....	14 00	.....	14 00
Empress.....	30 31	49 41	79 72
Engel.....	24 03	1 96	25 99
Englewood.....	23 50	.....	23 50
Ensign.....	38 42	98	39 40
Erie	69 88	89 17	159 05

TABLE No. 1.—Continued.

Streets.	Cleaning. Rounding and Filling.	General Repairs.	Total.
Erin	\$ 48 88	\$.....	\$ 48 88
Essex.....	17 75	.....	17 75
Eureka.....	5 70	4 01	9 71
Euclid	183 45	207 70	391 15
Everett.....	11 84	.....	11 84
Evergreen	27 50	.....	27 50
Ewald	25 00	.....	25 00
Erie Street Extension	3,285 82	.....	3,285 82
Eve.....	16 52	12 78	29 30
Fairview.....	29 81	.....	29 81
Factory.....	35 75	2 94	38 69
Fairbanks	10 00	.....	10 00
Fairfield.....	57 53	12 06	69 59
Fall.....	15 00	.....	15 00
Fairmount.....	74 79	34 86	109 65
Faringdon	10 00	.....	10 00
Fawn Lane	48 07	.....	48 07
Fay.....	10 00	.....	10 00
Fayette.....	15 10	.....	15 10
Fen.....	34 04	.....	34 04
Fifth	98 98	2 47	101 45
Fenton.....	31 00	.....	31 00
Filbert.....	28 54	.....	28 54
Fern.....	7 50	.....	7 50
Filmore	50 00	.....	50 00
Finn.. ..	21 77	.....	21 77
Fenney	13 72	.....	13 72
Filo.....	45 54	.....	45 54
Fir.....	4 52	.....	4 52
First.....	10 00	2 45	12 45
Fleet	265 21	47 69	312 90
Florence, East Side.....	8 04	1 96	10 00

TABLE NO. 1.—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Foljambe	\$ 12 00	\$.....	\$ 12 00
Forest, East Side.....	89 33	59 51	148 84
Forestdale	36 37	.....	36 37
Foreman.....	32 19	1 47	33 66
Fort	66 60	.....	66 60
Foster.....	22 26	.....	22 26
Fountain .....	.....	95	98
Fourth.....	20 30	9 09	29 39
Fowler.....	30 54	39 78	70 32
Frances.....	.....	8 58	8 58
Frank	52 03	17 39	69 42
Frankfort	33 25	98	34 23
Franklin Avenue.....	253 19	254 96	503 15
Franklin Circle.....	.....	17 90	17 90
Freas	20 50	.....	20 50
Frederick.....	25 00	.....	25 00
Freeman.....	20 62	21 37	41 99
French.....	22 01	.....	22 01
Fremont.....	49 00	38 00	87 00
Front.....	22 75	39 26	62 01
Frontier	33 00	2 38	35 38
Fuhrman	9 00	.....	9 00
Fuller.....	48 53	7 18	55 71
Fulton.....	19 50	846 37	865 87
Fullerton.....	53 56	13 52	67 08
Fruit	6 58	6 01	12 59
Fruitland	25 78	14 52	40 30
Garden	7 96	.....	7 96
Gallup.....	42 05	15 48	57 53
Gale.....	15 00	.....	15 00
Garfield	9 26	.....	9 26
Garretson	121 12	3 75	124 87

TABLE No. 1.—Continued.

Streets.	Cleaning. Rounding and Filling.	General Repairs.	Total.
Gaylord	\$ 156 67	\$ 15 51	\$ 172 18
Gauge	78 59	58 01	136 60
Geib	18 28	.....	18 28
Geneva	11 27	1 96	13 23
Genesee	35 00	17 85	52 85
Genesee, South	30 28	.....	30 28
Germania	10 00	.....	10 00
Gehring	23 25	.....	23 25
Gibson	4 29	5 29	9 58
Giddings	43 32	56 89	100 21
Gilbert	5 38	16 51	21 89
Girard	10 00	8 46	18 46
Gladstone	4 00	.....	4 00
Glass Avenue	12 54	.....	12 54
Glazier	15 00	.....	15 00
Glendale	27 00	8 00	35 00
Glen Park Place .....	.....	20 26	20 26
Glover	8 26	.....	8 26
Goethe	15 00	.....	15 00
Golden .....	.....	144 29	144 29
Goulding .....	.....	4 01	4 01
Gordon Avenue	212 66	.....	212 66
Grace	49 21	.....	49 21
Grand .....	.....	18 33	18 33
Grand Avenue	290 79	.....	290 79
Grand View .....	.....	52 56	52 56
Granite	20 00	.....	20 00
Grant	41 05	.....	41 05
Grape	13 02	.....	13 02
Gregmont	22 00	.....	22 00
Green	42 00	.....	42 00
Greenwood	35 00	16 96	51 96

TABLE No. 1.—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Griswold, East Side.....	\$ 22 50	\$.....	\$ 22 50
Greenwood, West Side.....	19 80	.....	19 80
Groton	22 77	.....	22 77
Grove.....	3 00	.....	3 00
Guernsey	18 59	.....	18 59
Gulliford	31 08	.....	31 08
Guthrie	82 78	.....	32 78
Haddock	30 70	14 29	44 99
Haff	10 00	.....	10 00
Hague	7 15	.....	7 15
Haight	3 54	.....	3 54
Hackman.....	10 78	2 45	13 23
Halsey.....	39 00	.....	39 00
Halstead.....	18 00	.....	18 00
Halle	1 50	.....	1 50
Hampden	15 00	.....	15 00
Hamilton.....	192 35	51 52	243 87
Hamburg.....	81 87	29 00	110 87
Hamm.....	139 89	20 52	160 41
Handy.....	19 25	13 41	32 66
Hanover.....	58 62	13 72	72 34
Harbor	72 51	73 62	146 13
Harkness ..	28 00	5 39	33 39
Harlem	8 00	2 45	10 45
Harmon	5 00	.....	5 00
Harper.....	13 26	2 94	16 20
Harriet.	18 00	.....	18 00
Harrison.....	37 00	1 96	38 96
Hartford.....	38 05	4 01	42 06
Hartzell .....	.....	75 30	75 30
Hartnell.....	11 52	.....	11 52
Hathaway.....	40 45	3 92	44 37

TABLE No. 1.—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Hamlet.....	\$ 34 90	\$.....	\$ 34 90
Harvard.....	305 62	1 00	306 62
Hastings	5 50	.....	5 50
Haven	20 77	.....	20 77
Haymarket.....	180 68	.....	180 68
Hawthorne	29 79	1 96	31 75
Hayes	3 00	.....	3 00
Hayward	26 55	1 96	28 51
Hazard .....	.....	1 47	1 47
Hazen	2 50	13 51	16 01
Heath	70 09	.....	70 09
Heisley.....	45 02	.....	45 02
Henry	5 00	1 96	6 96
Henrietta	4 00	.....	4 00
Henley	10 00	.....	10 00
Hemlock.....	21 00	.....	21 00
Herald.....	259 11	65 08	324 19
Herman	58 00	8 50	66 50
Herrick.....	10 00	.....	10 00
Herschel.....	41 55	.....	41 55
Herschner	41 50	.....	41 50
Hickory.....	41 25	1 96	43 21
Hickox	15 54	10 37	25 91
Hicks.....	44 32	98	45 30
Higly.....	4 75	.....	4 75
Higgins.....	56 73	39 08	95 81
High.....	19 25	47 59	66 84
Highland	67 32	.....	67 32
Hill.....	19 25	2 45	21 70
Hillburn.....	.....	1 96	1 96
Hillside.....	86 03	9 52	95 55
Hillsdale.....	.....	17 52	17 52

TABLE No. 1.—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Hillman.....	\$ 29 04	\$.....	\$ 29 04
Hitchcock.....	38 13	24 41	62 54
Hinds.....	26 52	.....	26 52
Hoadley.....	14 59	7 95	22 54
Hodge.....	155 89	24 30	180 19
Hinkley.....	11 00	6 01	17 01
Hodson.....	7 50	.....	7 50
Hoffman.....	.....	3 00	3 00
Hollister.....	122 62	.....	122 62
Holmden.....	63 00	44 81	107 81
Holton.....	119 92	18 62	138 54
Holyoke.....	.....	3 92	3 92
Homestead.....	10 00	.....	10 00
Homewood.....	56 01	6 25	62 26
Homer.....	31 33	.....	31 33
Hooker.....	5 00	2 00	7 00
Hope.....	21 89	2 67	24 56
Hoppensack.....	20 00	.....	20 00
Hosmer.....	103 47	.....	103 47
Horace.....	2 03	.....	2 03
Hough.....	43 25	22 20	65 45
House.....	20 52	.....	20 52
Howard.....	.....	78 35	78 35
Howe.....	23 00	11 75	34 75
Howell.....	27 55	.....	27 55
Howlett.....	12 78	3 26	16 04
Hoyt.....	72 32	3 13	75 45
Hubbard.....	2 75	.....	2 75
Hudson.....	36 78	6 93	43 71
Humboldt.....	84 54	33 82	118 36
Hurlbut.....	27 86	1 47	29 33
Hunter.....	35 00	.....	35 00

TABLE No. 1.—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Hunting	\$ 52 83	\$ 16 51	\$ 69 34
Huntington.....	47 41	7 05	54 46
Hurd	6 50	1 96	8 46
Huron	20 13	31 03	51 16
Hyde	15 53	4 26	19 79
Hugo	14 77	.....	14 77
Ida.....	.....	9 29	9 29
Independence	125 56	104 88	230 44
Indiana.....	8 50	4 41	12 91
Inman.....	20 00	.....	20 00
Inverness	19 02	2 50	21 52
Inspection of crosswalks.....	.....	713 00	713 00
Iona.....	60 58	4 41	64 99
Inspection of paving.....	.....	822 00	822 00
Inspection of catch basins.....	.....	2,096 40	2,096 40
Ironton.....	5 27	.....	5 27
Irving	74 98	8 82	83 80
Ivy	3 51	.....	3 51
Irvington.....	.....	5 39	5 39
Itasca	19 77	.....	19 77
Isabella	50 06	10 02	60 08
Irving Hill.....	.....	1 50	1 50
Isham	9 88	.....	9 88
Jackson	71 82	1 40	73 22
James	15 00	.....	15 00
Japan	9 01	3 26	12 27
Jay.....	19 00	6 92	25 92
Jefferson	81 73	77 86	159 59
Jennings Avenue.....	531 84	157 99	689 83
Jersey	30 38	24 52	54 90
Jesse	18 00	.....	18 00
Jewett.....	61 82	2 04	63 86

TABLE No. 1.—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Jirousek.....	\$ 53 04	\$.....	\$ 53 04
Johnson.....	10 50	98	11 48
John.....	20 75	60 39	81 14
Josephine.....	5 07	.....	5 07
Jones.....	95 51	13 52	109 03
Jordan.....	5 01	.....	5 01
Judd.....	15 27	.....	15 27
Joseph.....	17 53	.....	17 53
Julia.....	11 01	98	11 99
Judson.....	12 56	98	13 54
Junction.....	11 07	13 27	24 34
Kane.....	.....	25 04	25 04
Kazimier.....	20 00	.....	20 00
Kelley.....	10 00	27 02	37 02
Kenilworth.....	74 00	32 90	106 90
Kennard.....	30 00	13 02	43 02
Kennedy.....	33 04	20 52	53 56
Kensington.....	25 00	98	25 98
Kentucky.....	83 53	46 93	130 46
Kent.....	18 38	.....	18 38
Kelton.....	9 00	.....	9 00
Kenyon.....	24 15	.....	24 15
Kenmore.....	33 79	13 51	47 30
Kenneth.....	.....	2 38	2 38
Kenwood.....	40 54	.....	40 54
Kidder.....	20 27	.....	20 27
Kimmel.....	2 50	.....	2 50
Kerschow.....	10 04	10 79	20 83
Keyes.....	7 76	.....	7 76
Kilfoyl.....	6 00	7 50	13 50
Kindsvater.....	9 53	.....	9 53
Kimberly.....	20 00	.....	20 00

TABLE No. 1.—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Kingsbury.....	\$ 30 00	\$.....	\$ 30 00
Kinkle.....	15 62	17 52	33 14
Kirkham.....	20 52	.....	20 52
Kirtland.....	70 67	42 21	112 88
Kinsman.....	70 27	60 74	131 01
Knox.....	30 00	.....	30 00
Knowlton.....	19 53	.....	19 53
Korman.....	.....	9 79	9 79
Krakrow.....	14 00	.....	14 00
Lapier.....	23 03	.....	23 03
Laird.....	10 79	.....	10 79
Lake.....	656 51	.....	656 51
Lake Avenue.....	141 62	110 92	252 54
Lamont.....	20 00	98	20 98
Lardner.....	8 00	.....	8 00
Lasalle.....	15 00	6 50	21 50
Laurel.....	10 03	7 97	18 00
Landon.....	45 82	.....	45 82
La Grange.....	10 00	6 04	16 04
Lawn.....	52 80	36 04	88 84
Lawn View.....	27 00	8 29	35 29
Lawrence.....	49 33	41 61	90 94
Ledyard.....	46 38	.....	46 38
Lena.....	30 00	.....	30 00
Lenox.....	7 75	3 26	11 01
Leopold.....	.....	5 75	5 75
Leonard.....	20 00	.....	20 00
Leroy Place.....	30 79	.....	30 79
Lester.....	30 29	40 56	70 85
Lexington.....	60 77	59 92	120 69
Lewiston.....	19 02	.....	19 02
Leyden.....	4 50	.....	4 50

TABLE No. 1.—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Liberty	\$ 51 65	\$ 48 10	\$ 99 75
Liberal	38 54	.....	38 54
Libbie.....	8 79	.....	8 79
Lilac.....	10 00	.....	10 00
Lincoln.....	30 54	30 02	60 56
Light.....	10 00	.....	10 00
Linden	47 30	32 00	79 30
Lindus .....	.....	8 38	8 38
Literary.. ..	8 53	45 23	53 76
Lime.....	10 76	.....	10 76
Lindsay.....	10 00	9 76	19 76
Linton	59 31	20 26	79 57
Linwood	20 00	98	20 98
Lisbon.....	8 50	98	9 48
Literary .....	.....	45 23	45 23
Little.....	.....	2 45	2 45
Livingston	20 00	8 22	28 22
Lockyear....	20 00	.....	20 00
Lodge.....	2 50	98	3 48
Logan	40 00	8 43	48 43
Logue.....	20 00	.....	20 00
Long.....	30 00	5 09	35 09
Lohengrin.....	20 00	.....	20 00
Longwood	34 02	.....	34 02
Lookout.....	10 00	.....	10 00
Lorain.....	728 65	476 73	1,205 38
Louis... ..	77 50	3 96	81 46
Lucia.....	10 04	.....	10 04
Lovejoy.....	9 56	.....	9 56
Lussenden.....	62 58	.....	62 58
Luther.....	20 00	21 47	41 47
Lyford.....	12 09	.....	12 09

TABLE No. 1.—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Lyman.....	\$ 42 53	\$.....	\$ 42 53
Lyon.....	24 04	17 44	41 48
Lake Front.....	547 50	61 35	608 85
Macomb.....	30 00	.....	30 00
Main.....	24 53	113 52	138 05
Malcolm.....	123 55	.....	123 55
Malmsbury.....	29 04	.....	29 04
Mandrake.....	9 00	2 94	11 94
Maple.....	43 03	3 92	46 95
Mapledale.....	22 00	81 35	103 35
Maplewood.....	.....	3 77	3 77
Marah.....	10 50	.....	10 50
Marble.....	47 54	89	48 43
Marcelline.....	219 56	123 01	342 57
Marcy.....	.....	5 39	5 39
Marion.....	28 26	.....	28 26
Margaret.....	15 21	.....	15 21
Marquette.....	.....	.....	.....
Martin.....	70 59	.....	70 59
Marvin.....	71 52	62 65	134 17
Mary.....	3 97	.....	3 97
Mason.....	20 00	21 44	41 44
Mather.....	33 79	.....	33 79
Mathew.....	9 53	.....	9 53
Mayfield.....	73 57	7 44	81 01
Mayflower.....	.....	1 96	1 96
McBride.....	69 00	66 62	135 62
McKinstry.....	3 76	7 65	11 41
McKinley.....	101 37	.....	101 37
McHenry.....	64 51	7 34	71 85
McLean.....	9 53	2 45	11 98
Mead.....	58 69	.....	58 69

TABLE NO. 1.—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Medina...	\$.....	\$ 98	\$ 98
Mecca	47 72	.....	47 72
Mechanic.....	31 61	.....	31 61
Melrose.....	37 54	1 96	39 50
Melbourne.....	39 00	.....	39 00
Mentor.....	35 54	19 97	55 51
Merchant.....	61 43	62 76	124 19
Meridian	10 79	.....	10 79
Metta .....	.....	28 69	28 69
Merwin.....	120 00	9 80	129 80
Metta	8 00	.....	8 00
Merrill .....	.....	2 38	2 38
Middle.....	.....	3 59	3 59
Meyers	29 09	57 69	86 78
Miami.....	.....	35 51	35 51
Miles Avenue	77 51	.....	77 51
Michigan.....	51 00	13 23	64 23
Miles Park	100 75	1 79	102 54
Milford.....	231 95	82 86	314 81
Mill	65 66	82 13	147 79
Milton.....	9 01	5 17	14 18
Minnesota.....	6 00	3 43	9 43
Ming	15 00	.....	15 00
Minton	13 25	1 96	15 21
Minerva .	9 00	.....	9 00
Minnie	39 02	.....	39 02
Monroe.....	46 32	46 80	93 12
Mona	10 42	.....	10 42
Montana.....	3 00	.....	3 00
Montrose	13 14	.....	13 14
Montgomery	5 00	2 94	7 94
Monumental Square.....	20 00	25 44	45 44

TABLE No. 1.—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Moore	\$ 4 00	\$ 5 79	\$ 9 79
Moulton.....	21 03	.....	21 03
Mound.....	4 00	17 29	21 29
Mount.....	.....	20 58	20 58
Morgan.....	.....	.....	.....
Morton	49 04	40 56	89 60
Morrison.....	4 00	.....	4 00
Mulberry	8 00	14 21	22 21
Muirson.....	49 03	54 53	103 56
Murray Hill.....	42 30	.....	42 30
Myrtle	3 53	.....	3 53
Myron	19 02	.....	19 02
Mueller,	21 56	18 50	40 06
Malvern.....	.....	7 50	7 50
Mt. Vernon.....	20 00	.....	20 00
Nelson.....	.....	11 29	11 29
Newburn	47 04	.....	47 04
New	15 00	.....	15 00
Nebraska	15 00	.....	15 00
Newman.....	50 75	.....	50 75
Nicola ..	23 81	.....	23 81
North Perry.....	.....	11 39	11 39
Noble .....	.....	279 46	279 46
Nora.....	30 00	.....	30 00
Norman	27 28	2 00	29 28
Northeast Avenue.....	40 29	.....	40 29
Norwich.....	12 31	.....	12 31
Norton	10 00	1 96	11 96
North Woodland.....	56 53	.....	56 53
Norwood.....	91 08	12 89	103 97
Nove .....	.....	19 11	19 11
Noyes.....	14 03	10 87	24 90
Nove.....	25 00	.....	25 00

TABLE NO. 1.—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Newton.....	\$ 6 00	\$.....	\$ 6 00
Newell.....	13 00	6 22	19 22
Newark.....	15 77	38	16 15
Neville.....	22 00	9 98	31 98
Oak.....	14 00	.....	14 00
Oak Place.....	.....	2 98	2 98
Oakdale.....	83 32	59 50	142 82
Oakland.....	.....	1 26	1 26
Oakwood.....	31 78	.....	31 78
Ocean.....	31 18	.....	31 18
Old River.....	563 59	43 31	606 90
Olive.....	23 04	1 30	24 34
Oliver.....	19 27	9 80	29 07
Ontario.....	95 29	144 79	240 08
Orange.....	91 51	14 90	106 41
Orchard.....	2 50	3 43	5 93
Oregon.....	198 77	28 01	226 78
Orleans.....	8 00	.....	8 00
Orwig.....	28 53	.....	28 53
Osage.....	65 18	2 79	68 97
Osborne.. ..	8 03	5 88	13 91
Ottawa.....	20 00	.....	20 00
Osmond.....	.....	2 54	2 54
Ottoker.....	.....	3 29	3 29
Ottar.....	20 75	.....	20 75
Orwig.....	.....	20 51	20 51
Outhwaite.....	33 52	5 29	38 81
Oxford.....	.....	.....	.....
Pearl Street Yard.....	979 55	55 18	1,034 73
Pearl.....	1,071 36	1,246 23	2,317 59
Pallister.....	38 04	21 45	59 49
Parker.....	21 00	8 29	29 29

TABLE No. 1.—Continued.

Streets.	Cleaning. Rounding and Filling.	General Repairs.	Total.
Parkview.....	\$ 26 58	\$.....	\$ 26 58
Parkwood.....	7 50	15 50	23 00
Patton.....		13 51	13 51
Payne.....	2 76	154 56	157 32
Peach.....	4 00	23 00	27 00
Pear.....	30 98	3 43	34 41
Pelton.....	52 89	18 89	71 78
Penn.....	24 90	3 92	28 82
Pennington.....	36 04	36 06	72 10
Perkins.....	39 81		39 81
Percival.....	19 02		19 02
Perry.....	102 25	21 45	123 70
Permits Puddled.....		3,488 50	3,488 50
Petrie.....	497 75	85 82	583 57
Phillips.....	41 00		41 00
Phelps.....	30 54		30 54
Pier.....		89	89
Pine.....		1 07	1 07
Pittsburgh.....	58 63	10 78	69 41
Platt.....	14 00	11 73	25 73
Pleasant.....	132 42	6 42	138 84
Plum.....		2 79	2 79
Pollock.....	7 32	10 40	17 72
Poland.....	9 20		9 20
Poplar.....	84 04	24 01	108 05
Poe.....	30 03	4 41	34 44
Porter.....	22 00		22 00
Portage.....	63 48	98	64 46
Portland.....	9 00	13 92	22 92
Prague.....	4 00	6 39	10 39
Prame.....	6 09	25 04	31 13
Prim.....	116 69	2 29	118 98

TABLE NO. 1.—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Pratt	\$ 29 02	\$ 16 66	\$ 45 68
Preble		71	71
Professor		33 08	33 08
Prospect	80 57	99 63	180 20
Princeton	10 00		10 00
Prescott	26 00		26 00
Purdy	10 00		10 00
Pulaski	8 00		8 00
Putnam	14 00	3 92	17 92
Plymouth	27 12		27 12
Quebec	20 00	28 52	48 52
Queen	11 57	1 96	13 53
Quinby	23 30	16 86	40 16
Quincy	121 21	18 47	139 68
Race	38 69		38 69
Randall	16 30	15 47	31 77
Randolph		2 54	2 54
Ralph	17 00		17 00
Ramsey	27 02	3 92	30 94
Ray	10 51		10 51
Raymond	93 53		93 53
Reade	10 50	2 29	12 79
Reservoir	2 50	1 47	3 97
Reidell	38 54		38 54
Regent	43 00		43 00
Reno			
Republic	99 80	34 19	133 99
Rhodes	196 89	189 57	386 46
Remington	10 04		10 04
Richland	18 00		18 00
Ridge	258 93	67 73	326 66
Ritchie	23 53		23 53

TABLE No. 1.—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
River.....	\$ 57 98	\$ 182 80	\$ 240 78
Roberts.....		16 40	16 40
Robinson.....	6 50		6 50
Rock	10 00		10 00
Rockwell.....		14 56	14 56
Roland	7 00		7 00
Root.....	66 00	30 87	96 87
Roseville.....	14 38		14 38
Rosedale	174 29		174 29
Ross.....	30 42	1 96	32 38
Rossiter.....	10 60	98	11 58
Rowley	48 78	11 81	60 59
Roy	16 28		16 28
Ruggles	20 00		20 00
Rural.....	30 00		30 00
Round.....	8 51		8 51
Rockland.....	8 00		8 00
Russell.....	42 54	39 63	82 17
Ravine	32 35	51 95	84 30
Rockford	5 50		5 50
Reynolds.....	47 28		47 28
Ruskin		1 96	1 96
Rawlings.....	32 04		32 04
Rutledge	10 00		10 00
Russia.....	20 25	3 65	23 90
Riverside.....	60 85		60 85
St. Paul	14 52	1 81	16 33
St. Clair.....	133 13	258 27	391 40
St. Stanislaus	34 59		34 59
Sackett.....	172 94	653 87	826 81
Sadie.....	5 38	3 47	8 85
Saginaw.....	14 00		14 00

TABLE NO. 1.—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Sandusky.....	\$ 5 00	\$.....	\$ 5 00
Sago.....	5 38	98	6 36
Salisbury	24 37	30 56	54 93
Sawtell.....	7 03	6 31	13 34
Sawyer.....	52 32	11 87	64 19
Sayles.....	7 00	21 74	28 74
Shade.....	8 00	.....	8 00
Schaeffer.....	.....	98	98
Schiller.....	85 25	9 79	95 04
Schott.....	45 00	.....	45 00
Scott.....	9 78	26 46	36 24
Seovill.....	.....	155 19	155 19
Seoville Lane.....	39 27	.....	39 27
Seranton.....	468 30	80 07	548 37
Second.....	.....	4 98	4 98
Seedle.....	20 00	.....	20 00
Selden.....	64 53	6 02	70 55
Seltzer.....	20 00	.....	20 00
Seneca.....	224 64	161 78	386 42
Seymour.....	27 00	6 86	33 86
Shale.....	14 50	.....	14 50
Sherman.....	61 45	.....	61 45
Shelburne.....	35 54	.....	35 54
Sherbrook.....	.....	1 96	1 96
Sheriff.....	.....	12 14	12 14
Shepherd.....	39 55	.....	39 55
Sharon.....	7 25	.....	7 25
Short.....	20 03	.....	20 03
Siam.....	11 95	7 97	19 92
Smith Street Dump.....	.....	9 59	9 59
Silk.....	10 00	.....	10 00
Sibley.....	.....	14 70	14 70

TABLE No. 1.—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Sidney.....	\$.....	\$ 9 79	\$ 9 79
Sixth.....		2 94	2 94
Skinner.....	147 54		147 54
Slater.....	67 34	1 47	68 81
Smith.....	12 28		12 28
Smithfield.....	39 06		39 06
Snow.....	32 04		32 04
Solon.....	23 60		23 60
South.....	11 61		11 61
Sonora.....	35 94	1 96	37 90
South Bell.....		98	98
South Dille.....	85 09	3 85	88 94
South Logan.....		4 90	4 90
South Willson.....	179 92	9 04	188 96
South Woodland.....	74 34	8 33	82 67
Southern.....	36 25	1 96	38 21
Soweinski.....	29 04		29 04
Spangler.....		6 37	6 37
Spencer.....	11 83		11 83
Spring.....		4 90	4 90
Spruce Yard.....	219 48		219 48
Spruce.....	8 00	9 80	17 80
Stafford.....	35 79	11 62	47 41
St. Stanislaus.....		23 76	23 76
Stanton.....	4 00	98	4 98
Star.....	18 76	5 90	24 66
Starkweather.....	60 55	98 76	159 31
State.....	29 25	32 38	61 63
Sterling.....	64 05	38 99	103 04
Steuway.....	59 30	40 53	99 83
Stearns.....		33 78	33 78
Stone's Levee.....		6 26	6 26

TABLE NO. 1.—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
an.....	\$.....	\$ 8 00	8 00
.....	137 18	29 96	167 14
ton.....	19 00	.....	19 00
r.....	45 00	3 92	48 92
r.....	17 04	.....	17 04
t.....	77 78	10 78	88 56
r.....	63 61	2 96	66 57
or.....	.....	405 30	405 30
la.....	12 55	.....	12 55
.....	89 53	.....	113 14
.....	65 81	48 02	113 83
d Court.....	10 00	.....	10 00
ore.....	7 00	2 45	9 45
or Street Viaduct.....	.....	24 50	24 50
or Yard.....	317 56	.....	317 56
.....	114 80	94 90	209 50
Hill Talbot.....	27 04	.....	27 04
son.....	8 04	.....	8 04
isoo.....	49 78	.....	49 78
.....	26 45	.....	26 45
4.....	.....	4 76	4 76
.....	61 79	.....	61 79
as.....	18 79	5 13	23 92
.....	.....	1 96	1 96
.....	.....	3 50	3 50
.....	418 19	26 14	444 33
end.....	10 34	.....	10 34
.....	32 10	16 19	48 29
.....	50 54	10 50	61 04
e, East Side.....	50 32	58 57	108 89
.....	11 05	.....	11 05
nt.....	.....	4 90	4 90

TABLE No. 1.—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Trowbridge.....	\$ 52 06	\$ 1 96	\$ 54 02
Trumbull.....	122 32	17 64	139 96
Tustin.....	27 75	3 92	31 67
Turn.....		19 52	19 52
Turney.....	36 75	11 88	48 63
Twenty Third Avenue.....	47 06	5 39	52 44
Theresa.....	43 29		43 29
Union.....	842 91	216 41	1,069 32
University.....	43 77	8 42	52 19
Ursula.....	20 70		20 79
Upton.....	20 97	20 26	41 23
Valley.....	20 00		20 00
Vacin.....	7 00		7 00
Valentine.....	49 53		49 53
Vanek.....	53 08		53 08
Van Ness.....		16 22	16 22
Van Buren.....		1 96	1 96
Vega.....	64 48	32 52	97 00
Vergennes.....	7 51	1 96	9 47
Vermont.....	107 81	15 29	123 10
Vestry.....	7 08	3 34	10 37
Viaduct.....		5 88	5 88
Vienna.....	26 60		26 60
Vincent.....		56 46	56 46
Vine.....	3 00	3 34	6 34
Vistula.....	9 40		9 40
Vivian.....	4 00	8 97	12 97
Viola.....	7 50		7 50
Wabash.....	4 20	1 47	5 67
Wade.....	50 09	1 47	51 56
Wade Park Avenue.....	454 05		454 05
Wadsworth.....		98	98

TABLE NO. 1.—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
er.....	\$ 51 08	\$.....	\$ 51 08
.....	24 00	.....	24 00
.....	22 59	1 96	24 55
er.....	17 50	1 96	19 46
at.....	.....	16 25	16 25
n Avenue.....	58 00	8 38	66 38
link.....	26 00	.....	26 00
.....	.....	1 37	1 37
on.....	7 00	9 03	16 03
g.....	24 94	11 19	36 13
er Road.....	81 88	41 74	123 62
n.....	66 59	48 75	115 34
ick.....	25 03	.....	25 03
ngton.....	83 59	23 56	107 15
.....	16 00	10 29	26 29
.....	.....	42 72	42 72
ron.....	13 00	.....	13 00
ns.....	15 00	.....	15 00
ly.....	68 31	34 53	102 84
.....	.....	5 50	5 50
er.....	.....	2 45	2 45
rling.....	25 20	90	26 10
ll.....	40 02	.....	40 02
er.....	49 83	18 51	68 34
day.....	.....	4 01	4 01
am.....	25 00	.....	25 00
rorth.....	15 00	.....	15 00
center.....	.....	22 25	22 25
Clinton.....	24 52	1 96	26 48
Lake.....	.....	16 75	16 75
Madison.....	382 75	73 26	456 01
River.....	189 04	32 34	221 38

TABLE No. 1.—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
West Trenton	\$.....	\$ 14 02	\$ 14 02
Wheatland		1 75	1 75
White	15 00	49	15 49
Whitehead	4 50	1 96	6 46
Whitman	21 50	3 01	24 51
Wilcox	4 50		4 50
William	17 13		17 13
Willard		85 12	85 12
Wilhelm	55 08		55 08
Wiley	96 09	7 58	103 67
Willcott		98	98
Willett	21 50	6 90	28 40
Willson	353 37	114 65	468 02
Winslow	23 01		23 01
Winson		7 35	7 35
Winter		9 39	9 39
Wire	6 15	1 47	7 62
Wood	27 51	1 96	29 49
Woodbine	40 12	8 33	48 45
Woodbridge	41 03		41 03
Woodland	320 51	380 78	681 29
Woodland Hills Avenue	614 40	117 50	731 90
Woolsey	125 59	33 80	159 39
Worley	15 50	29 21	44 71
Worthington	8 50		8 50
Wooldridge		24 21	24 21
Willowdale	36 33		36 34
Wellington	121 75		121 75
Willard	8 79		8 79
Wyman		4 04	4 04
Wyoming	9 53	29 21	38 74
Yates	6 37		6 37

TABLE NO. 1.—Concluded.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
	\$.....	\$ 2 01	\$ 2 01
	14 53	28 35	42 88
		31 52	31 52
	7 00	.....	7 00
	16 29	2 45	20 74
Total of table.....	\$54,567 27	\$27,513 98	\$82,071 25

TABLE No. 2.

CLEANING PAVED STREETS.

FIRST DISTRICT.

Cost.

Streets cleaned, 1118.93 squares — 615.4 miles.....	\$11,436 70
---	-------------

SECOND DISTRICT.

Streets cleaned, 20584.37 squares — 1105.6 miles.....	21,865 53
---	-----------

THIRD DISTRICT.

Streets cleaned, 7004.34 squares — 386.4 miles.....	7,207 29
---	----------

	\$40,509 52
--	-------------

Cost of inspection.....	1,049 50
-------------------------	----------

Total cost.....	\$41,559 02
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NOTE.—1 square — 10,000 square feet.

TABLE NO. 3.

PAID FROM STREET FUND AND BILLS
RENDERED AGAINST SEWER DISTRICTS.

DONE BY ORDER OF SUPERINTENDENT OF STREETS.

Streets.	Macron Repairs and Flushing Sewers.	Paving Gutters and Paving Repairs.
Aaron	\$ 42 08	\$ 9 79
Beech.....	1 38	
Canfield.....	21 04	
Case	50 72	18 78
Cedar No. 336.....		3 13
Central.....	20 62	
Cross	8 77	
Forest	71 84	63 78
Grant.....	5 26	
Kennard.....	26 40	
Kirtland.....	2 95	
Lyman.....	38 20	
Phelps.....	42 08	
Prospect.....	42 08	
St. Clair 1080.....		6 26
Scovill.....	7 34	
Sibley.....	5 26	
Blair.....	42 08	
Canfield	17 43	
Cedar.....	42 08	6 26
Central.....	11 79	
Chapel.....	22 30	
Cherry.....	21 04	
Clinton Park.....	8 48	
Delaware.....	21 04	

TABLE NO. 3.—Continued.

District.	Streets.	Mason Repairs and Flushing Sewers.	Pay Gutter Pay Rep.
No. 2.....	Chestnut	\$ 21 04	\$.....
"	Dodge .....	.....	.....
"	Davenport.....	42 08	.....
"	Greenwood.....	6 77	.....
"	Granger	14 68	.....
"	Hackman.....	41 35	.....
"	Hamilton.....	72 73	.....
"	Harper	10 62	.....
"	Hayward	42 08	.....
"	Irving	1 06	.....
"	Laurel.....	11 02	.....
"	Lake.....	81 64	.....
"	Linden	20 52	.....
"	Oregon.....	2 94	.....
"	Payne	3 53	.....
"	Perry.....	4 51	.....
"	Prospect.....	6 26	.....
"	Ross.....	2 31	.....
"	Rosalter	42 08	.....
"	Sterling.....	5 51	.....
"	Sked .....	.....	.....
"	St. Clair.....	1 50	.....
"	Waring	61 62	.....
No. 3.....	Academy	7 76	.....
"	Baldwin Alley.....	10 52	.....
"	Bank	9 79	.....
"	Bowden Alley	25 50	.....
"	Bolivar.....	6 21	.....
"	Broadway	10 52	.....
"	Brownell	45 03	.....

TABLE No. 3.—Continued.

Streets.	Mason Repairs and Flushing Sewers.	Paving Gutters and Paving Repairs.
Canal.....	\$ 63 37	\$.....
Central.....	.....	3 13
Eagle.....	10 52	3 26
Erie.....	29 33	.....
Erie Court.....	31 56	.....
Euclid.....	2 15	.....
Euclid Alley.....	21 04	.....
Factory.....	2 15	.....
Farnham Alley.....	39 81	.....
Huntington.....	7 84	.....
High.....	.....	10 62
Huron.....	19 80	.....
Lake.....	41 64	.....
Muirton.....	10 52	.....
Ontario.....	7 72	.....
Prospect.....	12 82	.....
Rockwell.....	17 28	.....
St. Clair.....	22 06	.....
Superior.....	10 07	25 00
Seneca.....	20 04	.....
Sheriff.....	5 90	1 26
Vine.....	63 12	.....
Vincent.....	4 51	.....
Walnut.....	21 04	.....
Willson.....	6 26	.....
Woodland.....	7 35	.....
Barwell.....	42 08	.....
Brock Alley.....	10 52	.....
Carroll.....	5 26	3 13
Chatham.....	10 74	.....

TABLE NO. 3.—Continued.

District.	Streets.	Mason Repairs and Flushing Sewers.	Pr Gutt Po Re
No. 4.....	Columbus.....	\$ 42 66	\$.
"	Detroit	2 45	
"	Duane.....	9 79	
"	Franklin.....	7 35	
"	Green.....	5 26	
"	Hanover	10 52	
"	Hurd	12 24	
"	Jersey	10 04	
"	Lorain.....	76 46	
"	Merwin.....	6 26	
"	Mechanic.....	76 91	
"	Monroe.....	17 68	
"	Pearl	37 30	
"	Smith Alley.....	21 04	
"	Tracy	42 06	
"	Washington	6 02	
"	West River.....	9 59	
No. 5.....	Bridge.....	56 23	
"	Burton	42 08	
"	Central	4 27	
"	Courtland.....	48 27	
"	Clinton.....	13 98	
"	Ellen.....	15 54	
"	Franklin.....	2 07	
"	Kentucky.....	34 74	
"	Liberty.....	65 75	
"	Lorain.....	5 26	
"	West Madison.....	92 28	
"	Old River.....	11 79	
"	Root.....	21 04	

TABLE No. 3.—Continued.

Streets.	Mason Repairs and Flushing Sewers.	Paving Gutters and Paving Repairs.
Randall.....	\$ 19 58	\$.....
Washington	63 12	.....
Waring.....	55 02	.....
Weddell	70	.....
Woodbine.....	4 89	.....
Broadway (Old).....	12 54	.....
Asylum.....	.....	.....
Baden	42 08	.....
Belden.....	52 60	.....
Brenton	31 56	.....
Cedar.....	5 00	3 13
Chester.....	23 10	.....
Central.....	2 50	.....
Clara	11 80	.....
Clarkwood.....	52 60	.....
Dellenbaugh.....	31 56	.....
Euclid.....	.....	9 39
East Madison.....	70 00	.....
East Prospect	93	.....
Fourth .....	.....	6 26
Giddings.....	148 49	.....
Headley	109 45	.....
Kirtland.....	2 81	.....
Melrose.....	26 56	.....
Olive Court.....	24 54	.....
Pennsylvania Avenue.....	42 08	.....
Payne	2 76	.....
Quinby .....	.....	3 13
Russell.....	5 28	.....

TABLE No. 3.—Continued.

District.	Streets.	Mason Repairs and Flushing Sewers	Pav Gutter Pav Repa
No. 7.....	Fawcett.....	\$ 5 28	\$.....
"	Second.....	4 00	.....
"	Seneca.....	10 52	.....
"	Sibley.....	31 56	.....
"	Sanford.....	10 53	.....
"	St. Clair.....	.....	.....
"	Superior.....	11 21	.....
"	Willson.....	8 48	.....
"	Woodland.....	99 96	.....
"	White.....	30 83	.....
"	Whitney.....	11 79	.....
No. 8.....	Center.....	31 56	.....
"	Detroit.....	.....	1
"	Elm.....	10 52	.....
"	Main.....	33 68	.....
"	Old River.....	4 90	.....
"	Pearl.....	33 44	.....
"	Superior Street Viaduct, West End.....	7 34	.....
No. 9.....	Broadway.....	5 02	.....
"	East River.....	29 41	.....
"	Factory.....	5 89	.....
"	Front.....	11 49	.....
"	Leonard.....	2 94	.....
"	Main.....	48 42	.....
"	Seneca.....	10 52	.....
"	South Water.....	5 26	.....
"	Stein Alley.....	10 52	.....
"	Superior.....	10 52	.....
"	Water.....	32 92	.....

TABLE NO. 3.—Continued.

Streets.	Mason Repairs and Flushing Sewers.	Paving Gutters and Paving Repairs.
Jefferson	\$ 12 24	\$.....
University.....	6 29	.....
Auburn.....	35 08	.....
Abbey.....	62 60	.....
Branch.....	5 26	.....
Buhrer.....	10 64	.....
Jennings.....	38 02	.....
Scranton.....	69 84	.....
Wille.....	2 44	.....
Archwood.....	5 90	.....
Barker.....	26 81	.....
Clark.....	21 14	.....
Empress.....	35 00	.....
Forestdale.....	101 84	.....
Independence.....	4 10	.....
Pearl.....	9 40	6 26
Pleasant.....	10 52	.....
Rhodes.....	41 09	.....
Sackett.....	10 04	.....
Seymour.....	2 95	.....
Vega.....	62 60	.....
Berlin.....	21 04	.....
Browning.....	10 52	.....
Davis.....	138 20	.....
Detroit.....	9 79	.....
Fruitland.....	10 52	.....
Galt.....	5 26	.....
Hamover.....	31 67	.....

TABLE No. 3.—Continued.

District.	Streets.	Mason Repairs and Flushing Sewers.	Pa Gutts Pe Re
No. 13.....	Herriek.....	\$ 5 26	\$...
"	Highland.....	10 52	.....
"	Lawn.....	27 19	.....
"	Lohrengrin.....	13 04	.....
"	Mecca.....	5 89	.....
"	Parkview.....	4 15	.....
"	Ramsey.....	2 08	.....
"	Ship Alley.....	100 08	.....
"	Watterson.....	10 52	.....
"	West Madison.....	11 70	.....
No. 14.....	Forest.....	10 56	.....
"	Glen Park Place.....	.....	.....
"	Herald.....	4 90	.....
"	Holyoke.....	4 15	.....
"	Trumbull.....	5 26	.....
"	Union.....	101 00	.....
"	Willson.....	14 52	.....
No. 15.....	Atanson.....	15 78	.....
"	Ansel.....	9 40	.....
"	Becker.....	5 02	.....
"	Beckman.....	68 12	.....
"	Beckwith.....	61 73	.....
"	Bell.....	11 24	.....
"	Bolton.....	11 14	.....
"	Brooker.....	7 07	.....
"	Brookfield.....	61 59	.....
"	Brenton.....	57 86	.....
"	Burt.....	5 64	.....
"	Cedar.....	184 61	.....

TABLE No. 3.—Continued.

Streets.	Mason Repairs and Flushing Sewers.	Paving Gutters and Paving Repairs.
Central.....	\$ 12 62	\$.....
Crawford.....	5 26	.....
Cumberland	10 01	.....
Doan	10 04	.....
Edwards.....	21 04	.....
East Madison.	7 03	.....
Euclid.....	31 56	.....
Genesee.....	8 48	.....
Giddings.....	10 52	.....
Hodge.....	5 26	.....
Holton.....	15 78	.....
Hough.....	49 00	3 13
Kennard.....	42 08	.....
Kennedy.....	25 33	.....
Kinsman.....	.....	4 51
Mand.....	42 06	.....
Medina.....	5 02	.....
Oakdale.....	5 89	.....
Ramsay.....	4 15	.....
Reidell.....	19 56	.....
Republic.....	63 12	.....
St. Clair.....	45 83	.....
Stanley	9 02	.....
Steinway.....	10 52	.....
Streator	32 44	.....
Union.....	29 98	.....
Woodland	4 15	.....
Woolsey	68 38	.....
Bailey.....	10 52	.....
Burton.....	42 08	.....

TABLE No. 3.—Continued.

District.	Streets.	Mason Repairs and Flushing Sewers.	Pav. Gutter Pav. Repa.
No. 16.....	Conrad.....	\$ 10 52	\$.....
"	Clark.....	102 18	.....
"	Lawn.....	42 08	.....
"	Swiss.....	14 02	.....
No. 17.....	Barkwill.....	10 52	.....
"	Broadway.....	69 22	.....
"	Gulliford.....	2 51	.....
"	Hamlet.....	10 52	.....
"	Independence.....	.....	.....
"	Jefferson.....	13 53	.....
"	Martin.....	8 85	.....
"	Petrie.....	224 97	.....
"	Sawtall.....	5 26	.....
"	Solon.....	21 04	.....
"	Tamworth.....	5 24	.....
"	Willson.....	4 00	.....
"	Union.....	49 37	.....
No. 18.....	Atwater.....	89 32	.....
"	Broadway.....	9 91	.....
"	Dean Place.....	21 04	.....
"	Harvard.....	23 58	.....
"	Warner Road.....	10 52	.....
"	Woodland Hills.....	9 79	.....
No. 19.....	Baxter.....	29 08	.....
"	Foreman.....	42 08	.....
"	Forest.....	75	.....
"	Mound.....	51 26	.....
"	Tamworth.....	6 22	.....

TABLE No. 3.—Concluded.

Tot.	Streets.	Mason Repairs and Flushing Sewers.	Paving Gutters and Paving Repairs.
.....	Cedar.....	\$ 21 74	\$.....
.....	Parkwood	237 97	.....
.....	Oakland.....	19 40	.....
.....	Chestnut Dale.....	21 04	.....
.....	Fairlawn.....	31 56	.....
.....	Canal.....	27 57	.....
.....	Commercial Street.....	53 72	.....
.....	Cross.....	5 02	.....
.....	Berg.....	128 60	.....
.....	Jefferson	2 00	.....
.....	Seneca.....	10 52	.....
.....	Spruce.....	21 04	.....
.....	Stone's Levee.....	10 52	.....
.....	Total	\$ 7,840 08	\$ 346 64
.....	Total of Table No. 3.....	.....	\$ 8,186 73

TABLE NO. 4.

WORK DONE BY CONTRATORS REPAIRING SEWERS
on Orders from Superintendent of Streets and Charged
Directly to Sewer Districts (no part taken
from Street Funds).

Sewer District.	Streets.	Breaks on Sewers.
No. 1	Canal and Commercial	\$ 30 40
"	Case 1103	12 87
"	Case 1194	17 04
"	Cedar 1018	15 00
"	Cedar 336	10 75
"	Central and Osborne	25 75
"	Central and Forest	13 80
"	Forest 364	12 25
"	Forest 204	12 87
"	Grant 38	14 35
"	St. Clair 1124	12 83
"	Bills of merchandise for same	19 75
	Total	\$197 66
No. 2	Cedar 101	\$ 21 71
"	Cedar and Greenwood	24 85
"	Central and Scovill	10 05
"	Central and Sked	12 75
"	Dodge 158	10 79
"	North Perry	53 45
"	Payne 815	11 05
"	Sibley and Hoadley	21 05
"	Sterling	15 00
"	Bills of merchandise for district	48 50
	Total	\$229 20

TABLE NO. 4.—Continued.

Streets.	Breaks on Sewers.
Bolivar	\$ 43 75
Bowden Alley	23 45
Canfield and Mairson.....	27 00
Canfield and St. Clair.....	34 45
Erie and Hamilton.....	15 42
Erie and Euclid	32 17
Erie 123.....	19 25
Erie 537.....	49 68
Euclid	15 04
Huntington.....	8 80
Lake and Academy.....	15 00
Lake and Bond	10 75
Prospect 402.....	13 25
Prospect 318.	14 87
Sheriff.	14 75
Summit and Seneca	22 63
Bills of merchandise for district	99 29
Total	\$ 459 55
Detroit 201.....	\$ 16 10
Detroit and Pearl	23 10
Dexter.....	16 65
Japan.....	16 70
Seymour and Pearl.....	3 60
Bills of merchandise for district	39 37
Total	\$ 115 62
Clinton No. 89... ..	\$ 30 55
Detroit and Courtland	32 85
Division and State.....	10 96
Lorain and Mechanic.....	61 22

TABLE NO. 4.—Continued.

Sewer District.	Streets.	Breaks on Sewers.
No. 5	Swiss 68.....	\$ 22 75
"	West Madison.....	7 42
"	Bills of merchandise for district.....	102 08
	Total	\$ 267 78
No. 7	Cedar 688.....	\$ 15 87
"	Central and Quincy.....	8 25
"	Euclid.....	12 22
"	Giddings and Superior.....	16 37
"	Hamilton and Kirtland.....	30 45
"	Hoadley	10 63
"	Hough.....	11 96
"	Lexington.....	29 20
"	St. Clair	12 75
"	White No. 80	31 65
"	Willson and Fourth	13 57
"	Willson and Quinby.....	59 70
"	Willson and Quincy	13 70
"	Willson and Willson Place	20 13
"	Woodland and Geneva	17 55
"	Woodland and Chester.....	33 19
"	Woodland 957.....	20 45
"	Woodland and Woodland Court.....	25 60
"	Bills of merchandise for district.....	44 48
	Total	\$ 426 72
No. 8	Pearl 102.....	\$ 6 00
"	Vermont and Superior Viaduct	12 75
"	Bills of merchandise for district.....	12 00
	Total	\$ 30 75

TABLE NO. 4.—Continued.

District.	Streets.	Breaks on Sowers.
.....	East River 158.....	\$ 108 50
.....	East River 44.....	17 00
	Total	\$ 125 50
.....	Pelton and University.....	\$ 182 25
	Total	\$ 182 25
.....	Pearl 1308.....	\$ 17 80
	Total	\$ 17 80
.....	Barber and Mill.....	\$ 14 98
.....	Backett and Pleasant.....	87 28
	Total	\$ 102 26
.....	Davis and West Madison.....	\$ 136 64
.....	Meadow	22 26
	Total	\$ 158 90
.....	Forest.....	\$ 1,408 65
.....	Gladstone	11 05
.....	Herald.....	94 13
.....	Holyoke	8 25
.....	Trumbull.....	56 76
.....	Willson.....	44 45
	Total	\$ 1,623 29
.....	Cedar.....	\$ 70 93
.....	Doan.....	9 98
.....	Hough.....	23 50

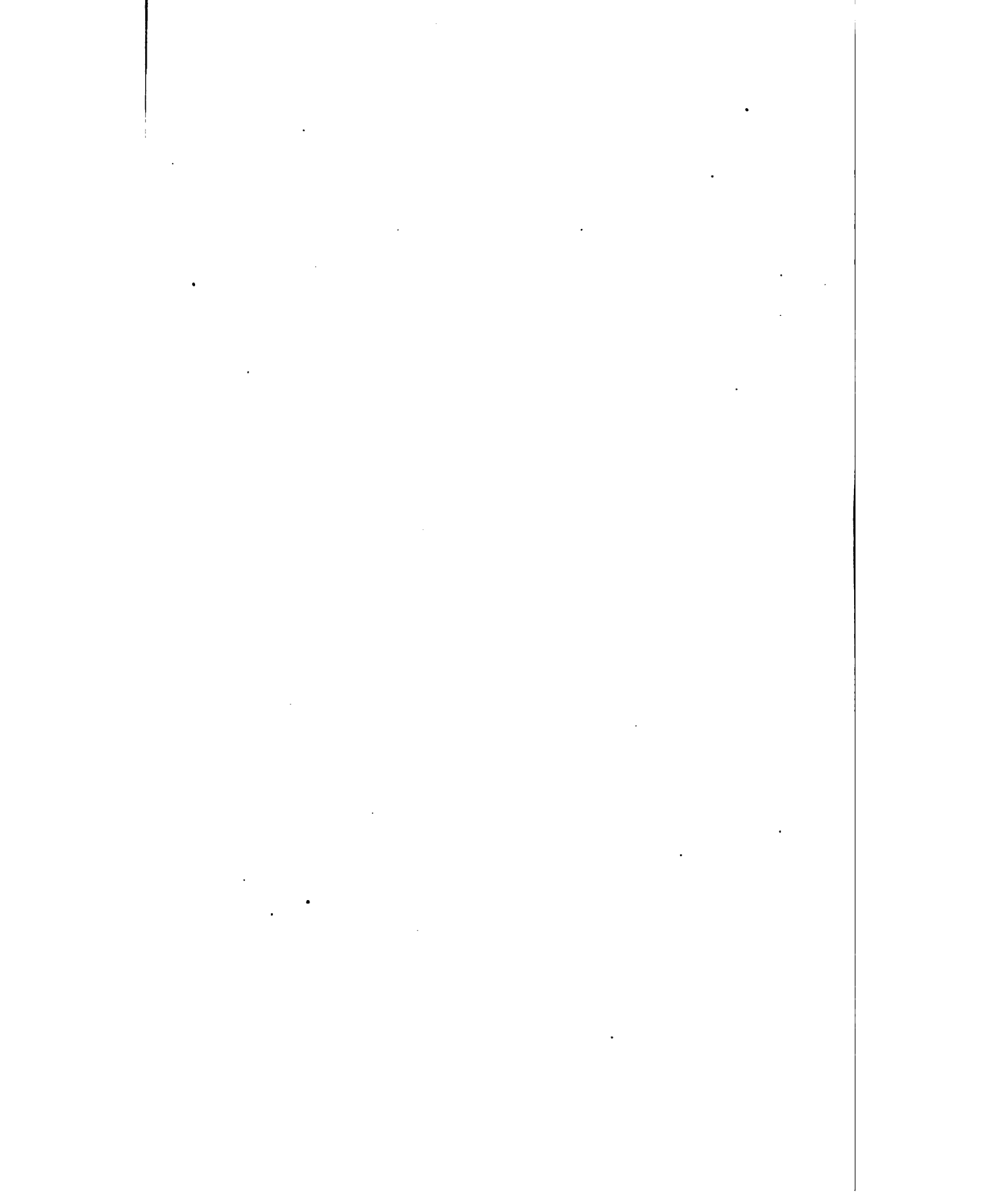
TABLE No. 4.—Concluded.

Sewer District.	Streets.	Breaks on Sewers.
No. 15.....	St. Clair and Bliss.....	\$ 33 86
"	Superior and Marcy.....	20 87
"	Merchandise for district.....	12 56
	Total	\$ 171 70
No. 17.....	Jefferson and Broadway.....	\$ 40 75
"	Petrie and Rockett.	12 17
"	Bills of merchandise for district.....	115 32
	Total	\$ 168 24
No. 18..	Broadway and Jones	\$ 48 25
"	Bills of merchandise	37 25
	Total	\$ 85 50
No. 19.....	Bills of merchandise for district	\$ 10 87
	Total	\$ 10 87
No. 20.....	Caswell.....	\$ 179 40
"	Bills of merchandise for district.	15 00
	Total	\$ 294 40
Commercial..	Bills of merchandise for district.....	\$ 16 50
	Total	\$ 16 50
	Total bills of all districts.....	\$ 4,684 39

DEPARTMENT OF PUBLIC WORKS.

(THIRD DIVISION.)

Report of the Chief Engineer.



Report of the Chief Engineer.

GEO. R. WARDEN,

Director of Public Works :

DEAR SIR:—I herewith submit my Annual Report of work of the Division for the year ending December 31, 1897.

The classifications, extent and cost of the various improvements will be found in the appended tables.

The total amount expended for contract work of all kinds in the year of this Department during the year is \$1,444,443.13.

In some departments the amount of work done this year exceeds that of 1896. In street paving the amount expended in 1897 exceeds that for the previous year by 44½%; in number of streets paved in 1896 and 1897 the relation is 29 to 39. In sewers constructed last year, while the mileage was about one-half greater than for 1896, the cost of the work was nearly 100% greater, showing that the sizes of the sewers were greater than the average sizes for 1896, noticeably the sewer in Walworth street.

In miscellaneous work, river widening has added a large amount to this year's table, the amount expended for land being by far the largest item.

PAVING.

Thirty-nine streets were paved or repaved during the year; 18 streets were paved with Medina block stone, amounting to 1.42 miles; eleven streets were paved with Medina common stone, amounting to 1.42 miles; and twenty-two streets were paved with brick, the latter aggregating 5.83 miles, making a total of 8.67 miles. This amount is about 44½% greater than the amount expended for similar work in 1896.

The amount of paving of all kinds in the city at the end of the year is about 136.23 miles, as shown herein.

Proposals were received for a number of asphalt pavements during the year, but no new contracts were made. It is expected that these pavements will be advertised and placed under contract early the coming year.

A decision has been rendered in the court in the Murray Hill avenue street railroad contest and it is hoped the asphalt paving for this street, now under contract and so long delayed, may be completed early next year.

Recent bids for asphalt pavements show a material dropping in prices of from 20 to 40 per cent., owing to more active competition among bidders. This is likely to bring this class of pavements into more general use in this city.

The strict classification and more rigid inspection of all material for stone pavements has brought this class of work into much better condition, and has eliminated almost entirely from our pavements an inferior quality of Medina stone found in many quarries and known as "red horse." The conditions in the guaranty of pavements for a term of years has also made the contractor more watchful upon his part, as to the quality of material furnished.

With the single exception of Ward street, between Lorain and Monroe streets, in all brick pavements laid during the year a five-inch paving brick was used, the other dimensions being about $3\frac{1}{2}$ inches thick by $8\frac{1}{2}$ inches long, made with projections upon their sides, keeping the rows apart when laid, to receive the grout or asphaltic cement filler used in the joints. In the street first named a four-inch brick was used.

All paving bricks used during the year were either of vitrified shale, or shale mixed with a proportion of fire clay. The latter, while not as hard, are somewhat less brittle and are less slippery than the former.

Brick pavements, owing to their cheapness, comparative smoothness and ease of construction, are each year coming into more general use. The past year shows the number of brick paved streets to have exceeded both the block and common stone pavements together by nearly 30%, and in cost more than 60%. The growing tendency for this class of pavements should be

encouraged within reasonable limits, but not to the exclusion of better and more expensive pavements, simply because the former are cheaper in first cost. The time of renewal of such pavements must come much sooner, when the City must pay one-half the cost of such renewal.

All pavements laid during the year have been filled with either hot asphaltic cement, Murphy Grout Filler, made at Columbus, O., or with a grout filler made of one part of Saylor's Portland Cement and one part of clean sharp sand. The two former fillers are known to be good when made as well as they can be, and the latter, it is believed will, in time also prove a good filler.

By resolution of the Council, the term of guaranty on all stone and brick pavements laid under this year's contracts, was reduced from 3 to 5 years, while that on asphalt pavements is to be reduced from 10 years as heretofore, to 5 years, the same as on all other pavements.

Concrete foundations were used on Center street, between Main and West River streets, paved with block stone, and on Lexington avenue, between Willson and East Madison avenues, paved with brick, the latter being the first of the brick pavements to receive a concrete foundation; this was occasioned by the narrow roadway and double track street railroad upon it, where the bulk of all travel is confined within narrow limits. I recommend concrete foundations for all brick pavements when laid under similar conditions, and under all pavements subject to excessive traffic; otherwise our natural foundations of sand and gravel, made hard and compact by puddling and rolling have given excellent results and are less expensive.

All of the streets and alleys paved during the year with Medina common stone, with the single exception of Bridge street, completed from last year, were laid with old stone taken from other streets; the material, after careful selection and re-dressing, has been largely used in narrow alleys heretofore unpaved. Many of these alleys were in an unsightly and unsanitary condition before paving, and are thus made clean and useful thoroughfares. The alleys were paved with 2 or 2½ foot flagstones, 6 inches thick, laid upon each side, and the balance paved with the center slightly crowned, with the flagstone beveled

upon the upper corner next the gutter. This forms an excellent sidewalk for pedestrians, and an equally good passageway for teams, as wheels of vehicles easily mount and use the flagging in passing teams.

The prospective paving work for the coming season is more than 2.8 times greater than the amount done in 1897. Assuming that all streets will be paved where the first installment of the tax was placed upon the duplicate prior to December 20th, 1897, the number of streets, mileage and estimated cost of work to be done will be about as follows :

2 block stone pavements	.28 miles.....	\$ 25,455 00
10 common stone pavements	1.27 miles.....	52,169 00
12 Asphalt pavements	3.36 miles.....	241,368 00
33 brick pavements	10.22 miles.....	322,731 00
<hr/>		
57 streets.	15.13 miles.....	\$ 641,723 00

I recommend that the bulk of all proposed paving work be advertised and let as early in the new year as is practicable, in order that work may start at the earliest possible moment in the spring.

The amount and kinds of paving in the city at the close of 1897 are about as follows, it being remembered that only new pavements can be added each year to the mileage of pavements in use at that time :

Asphalt (Trinidad sheet).	96,390 sq. yds. =	4.95 miles
Medina stone.....	2,151,133 "	= 89.80 "
Paving brick.....	678,476 "	= 38.55 "
Wood.....	33,613 "	= 1.48 "
Macadam (cinder & stone)	15,488 "	= .73 "
Cobblestone	473 "	= .05 "
Miscellaneous.....	13,739 "	= .67 "
<hr/>		
Totals	2,989,312 "	= 136.23 "

All pavements under contract during the year were completed, except the block stone pavement on a portion of Willson avenue, from Broadway to Bower street; the north approach to Willson avenue bridge; the brick paving on Buckley street, from

Burton to Harbor street; the common stone paving on Scranton avenue, between Seneca and Cliff streets, and the asphalt paving on Murray Hill avenue, all of which are expected to be commenced and be completed early the coming season.

GRADING AND CURBING.

Fifteen streets were graded or graded and curbed during 1897, the length of about $2\frac{1}{2}$ miles, and costing \$9,427.25.

The work of grading and curbing for next year embraces nineteen streets about 5 miles in length, and is estimated to cost \$73,605.00.

Medina stone crosswalks with 3-inch sawed stone flagging, extending from the curb to the flagged walks along the streets, are laid in connection with all graded and curbed streets, as heretofore.

The most extensive improvement in street grades under construction during the year, a part of which is embankment and the balance steel and iron, is the overhead crossing on Willson avenue over the tracks of the N. Y., C. & St. L. Ry. The roadway will be about 25 feet above the railway tracks, with a grade descending to the north of 6 inches per 100 feet, and to the south of $2\frac{1}{2}$ feet per 100 feet to Bower street. The entire length of the improvement will be about 1,105 feet, and will cost about \$150,000.00.

SEWERS AND DRAINS.

The cost of sewer work in all its departments done during the year 1897 is nearly 100% greater than for the year 1896, and is more than 300% greater than the cost of all sewer work done in 1895.

The amount expended for the year 1897 is \$402,454.97, and embraces work on seventy-nine sewers.

The sewer in Union street, from Broadway to Woodland Hills avenue; in Willson avenue, from Kingsbury Run to Track street; in Pearl street, between Brevier and Franklin avenues and in the L. S. & M. S. Ry. right-of-way, from Alger street to Lake avenue, were completed from last year's contracts.

The sewer in Case avenue, between Woodland avenue and

Kingsbury Run; in Gordon avenue, between Breakwater and Bridge streets; in Oliver street, between Superior street and Euclid avenue, and the sections of the sewer in Walworth street were left incomplete at the close of the season. In table No. 3 the amount expended upon each is shown.

Of all the sewers to be constructed during the coming year the great Walworth street sewer overshadows all others in size, importance and cost of construction. It is by far the largest work of its kind ever undertaken by the City, and is exceeded in size and importance by only a few others in this country. This sewer will begin at the head of Walworth Run valley, at the intersection of Clark and Gordon avenues, and extend easterly in Walworth street, and in a special right-of-way in said valley, a distance of about 13,600 feet, to the Cuyahoga River. The sewer, when complete, will have an interior diameter of 16 feet 6 inches at its lower end and 8 feet at its upper end. It will be circular in form upon its interior surface, with a vitrified shale brick lining throughout. The exterior surface of the arch and haunch walls consists of segments of circles, with radii varying according to sizes of sewer. The exterior of the bottom will consist of a horizontal plane, broadened out to meet the varying conditions of the foundation. The exterior side walls below the haunches will be straight, inclining slightly inward.

The entire lower portion of the sewer, except the inner ring, as stated, will be of cement concrete, resting upon a plank grillage when necessary. The arch and haunch walls will be of brick masonry.

The sewer is designed to take storm water and sewage combined. The great length of the valley, and its extreme depth below all adjacent territory makes it the storm center of a vast area extending beyond the limits of the valley proper. The steep gradients of all street gutters and sewers connecting with it from the adjacent lands, when fully improved and built upon, will precipitate the water from excessive rainfalls into the sewer with such rapidity that floods in this valley would surely follow if the sewer were not made correspondingly large to receive it; not as this territory now exists, but as it will be when fully built up. I believe this necessity has been fully met, with a wise margin for safety in the sizes and grades adopted.

The sewer is estimated to cost about \$730,000.

To insure its speedy contemplation, the sewer work has been divided into four sections or working portions. Section No. 1 comprises the upper portion of the sewer, from Gordon avenue to the angle in Walworth street 646 feet easterly from Junction street, and is approximately 4,479 feet in length; section No. 2 begins at said angle and extends to a point 100 feet west of the westerly line of Mill street, and is about 4,353 feet long; section No. 3 begins at said last named point and extends to a point about 823 feet east of Willey street, a distance of about 3,011 feet; said last named point is in the special right-of-way secured for said sewer, which, after deflecting to the left from Walworth street, follows more nearly the trend of the stream to its crossing of Scranton avenue; section No. 4 extends from said point 823 feet west of Willey street, in and along special rights-of-way obtained for said sewer to the Cuyahoga River; the length of this last section will be about 1,770 feet.

The sewer at its outlet into the river will be of novel and somewhat difficult construction, owing to its having to pass under the tracks of the N. Y., P. & O. R. R. which run nearly parallel with, and from 100 to 140 feet from the river at this point, and consist of an upper and lower section of nearly parallel tracks, crossing the sewer at nearly right angles.

The upper section of tracks is of sufficient height to give nearly 20 feet fill over the crown of the sewer in its normal condition. From this point the form of sewer must be sufficiently flattened in a distance of about 40 feet to pass under the lower section of tracks, the supporting girders of which will not be more than 5 feet above the bottom of the sewer at this point.

Under conditions which here exist, and which are susceptible of little or no change, this sewer, which at maximum flow will carry an enormous volume of flood water, must within this short distance be depressed from a 16½ foot circle to a flattened section of less than 5 feet in height. To meet these conditions this flattened section must be broadened to more than three times the normal diameter of the sewer, or about 50 feet, for maximum flood. For the minimum or dry weather flow a separate channel will be provided either in the center or on one side of the broadened section. The sudden transition of a vast volume of water

at flood tide from a circular form to a flattened section of such unusual proportions, without shock or danger to the sewer or to passing trains over the same, is a problem seldom met with in sewer construction in this or any other city.

Another point on Section No. 4 where special construction is required is where the sewer passes under the Abbey street portion of the Central Viaduct, just west of Scranton avenue. The sewer at this point will displace one of the masonry pedestals supporting a leg of one of the spans of the Viaduct, 60 feet above.

This can be carried by greatly broadening and deepening the foundations of the sewer upon each side directly under the support, and then reinforcing the side walls and arch of the sewer sufficiently to safely carry the weight directly upon the crown of the sewer. Another plan suggested is to build two new and independent masonry pedestals, one upon each side of the sewer, and carry the iron support of the bridge upon a heavy plate girder spanning the sewer and resting upon the pedestals upon either side.

The former plan would have the better appearance and would not disfigure the Viaduct structure. With the latter plan there would be less liability of accident to the bridge in case of a break in the sewer at this point. The cost of the two plans will not greatly differ, and either will be efficient.

The construction of the sewer necessitates the raising of the grade of Scranton avenue some six or more feet at this crossing. This will give a much better grade to the street, and is desired by the abutting owners, who will waive any claim for damages, providing the cost of filling be charged to sewer construction.

The cost of paving the street, as now contemplated, to the proposed new grade would be no greater than to the present grade, after the filling is done. The change should commence on the south line of Cliff street and extend to present surface about on the south line of the Central Viaduct.

I recommend that this change be made and that the cost of filling be charged to Walworth street sewer, as such change was not made a part of the preliminary expense of paving the street, and cannot well be added now.

Work was commenced upon the lower end of Section No. 1 by Messrs. Wilson & Strack, of Cincinnati, early in the season, and later upon the portion above Swiss street. Good work was done, and about 1,630 feet of sewer was put in.

Work was commenced late in the season by Messrs. Bramley & Gribben on Section No. 2, at its lower end near Mill street, and about 430 feet of sewer completed. The sewer is 11½ feet in diameter at this point.

Work was also commenced by them, and the concrete foundation put in on the large overflow chamber about 800 or 900 feet west of Mill street, where the sanitary flow from this sewer is to be taken up and carried by gravity across the city to and through Perry and North Perry streets to the eastern interceptor in Lake street.

Messrs. Bramley & Gribben are also the contractors for Section No. 3 of this sewer, but, owing to the lateness of the season when the contract was let, no work has been done.

Owing to the magnitude of this sewer and the great volume of water that it will at times carry, the specifications in all contracts on this work are more exact, and call for better and different material and workmanship than has ever been required on sewer work in this city before, and with very gratifying results.

A testing laboratory was opened in one of the rooms connected with my office, for testing all material used in this work. Careful tests have been made of all sand and cement used for fineness; of cement for set and tensile strength, when made into briquettes, and of all bricks for absorption.

This new requirement in specifications, and its strict enforcement, occasioned some friction at first, but matters soon adjusted themselves, and better and more uniform material and workmanship were secured thereby, and soon all came to see that to definitely measure the amount of material was, after all, more satisfactory than to have inspectors and contractors guess at it, and differ as they always will.

The intercepting sewer along the L. S. & M. S. Ry. right-of-way, commenced last year, has been completed this season, from the point where work had stopped, to Lake avenue, a distance of about 3,037 feet, decreasing from 7¼ feet in diameter to 6 feet at the last mentioned avenue. The cost was about \$30,000.

This sewer should be continued the coming season from its easterly end, near Alger street, along the L. S. & M. S. Ry. right-of-way to and connect with the sewer in Waverly avenue, that citizens along the line of the sewers built this season, and connecting with this sewer, may have the benefit of sewer connections for their property, which cannot be done until the Waverly avenue sewer is reached.

The sewer in Lake avenue, from the L. S. & M. S. Ry. right-of-way to Detroit street, with its storm-overflow chamber and outlet under the L. S. & M. S. tracks, and also its sanitary connection with the intercepting sewer to the east, have all been completed this year.

The storm overflow chamber and its connections form a complicated and important piece of work, difficult of construction, especially the tunnel work under the L. S. & M. S. Ry. where water and quicksand were encountered, which occasioned the constant settling of the tracks during construction, but was completed without accident or the stopping of trains. This overflow sewer, which is designed to receive the storm overflow of all sewers centering at this point, should, if possible, be put under contract the coming winter and carried to the lake through Edgewater Park with all reasonable dispatch, the proper grant having been secured from the Board of Park Commissioners.

This sewer is to be built in tunnel and will be 9 feet 4 inches in diameter and about 1,000 feet long, to the bank of the lake, and can be easily prosecuted during the winter months. Owing to the material likely to be encountered, compressed air will doubtless have to be used, and should be specified in receiving bids.

The outlet is expected to be carried out into the lake, but the distance or mode of construction has not been decided upon.

Of the Detroit street sewers belonging to this system, the sewers from Lake avenue to Gordon avenue and that from Scoville lane to Lowell street, with its outlet through the former street into the Lake avenue sewer, have all been completed this year.

The sewers in Detroit street, from Lake avenue to Scoville lane, and from Landon street easterly to Elliott street, with an

outlet through the latter street to the sewer in Lake avenue, are expected to be completed early the coming season, as the former and the sewer in Elliott street are under contract.

The sewer in Desmond street, just south of and parallel with the L. S. & M. S. Ry., from Lake avenue westerly to and along the Boulevard to Detroit street, should be built next season, as this will serve as the outlet for the sewers in this portion of Detroit street, Wellington and West Madison avenues, and of streets in their vicinity greatly needing sewerage facilities.

Land has been secured for the eastern terminal of the Intercepting sewer, and work should begin at this end as soon as possible.

Such legislation should be secured the coming winter as is necessary to enable us to secure, either by condemnation or otherwise, the right to construct the sewer through the villages of Glenville and Collinwood, through whose territory it must pass to reach the City.

No further progress has been made toward the construction of the proposed Doan street sewer, for the like reason that one-half its length, and that the lower half, must pass through Glenville to reach the interceptor. This sewer, if built through the City's portion only, would have no outlet and could not be used. Similar legislation should also be secured for this sewer.

Surveys and maps have been made in the valleys of Kingsbury and Morgan Runs during the year looking to the building of intercepting sewers in these valleys, as must sooner or later be done. The steps here required will be similar to the steps taken to redeem the valley of Walworth Run. No definite action has yet been taken in regard to either of the two valleys.

Legislation should also be secured the coming winter authorizing the construction of a conduit for deflecting the waters of Giddings Brook east of Woodland Hills avenue through Baldwin street into Doan Brook.

The Board of Park Commissioners are favorable to this project, and the inhabitants along and in the vicinity of Giddings Brook, from Woodland Hills avenue to the lake, are demanding some relief, as this creek is little more than a dry bed much of the year, but is subject to sudden floods.

The expense would be somewhere from \$40,000 to \$50,000, and should in part be borne by those who would receive most benefit by getting rid of the nuisance.

The sewers in Forest street, from Kingsbury Run to Croton street, and the sewer in Columbus street, from West River street to Lorain street, have been replaced during the year by larger and more substantial sewers. Both of these sewers were upon steep gradients and the old sewers were so nearly worn out as to be a constant source of expense and anxiety. To renew the former cost \$13,840.00 and the latter about \$7,000.00.

The prospective work for 1898, as shown in Table No. 7 of this report, embraces sewers on 112 streets, aggregating in length more than 30 miles, and are estimated to cost \$2,995,112.00.

The work of constructing the 79 sewers under contract during the year, and preparing estimates, plans, resolutions and ordinances, etc., for the 112 sewers referred to above for 1898, has made the Division of Sewers and Drains the largest and most important in this Department.

RIVER PURIFICATION.

A plan for river purification was recommended to the City Council in January, 1896, by the Commission of Expert Engineers. This plan was approved by the Council on February 3, 1896, and if to be done should receive such consideration the coming year as will place the project under construction at least during the year following.

The Commission recommended the construction of a flushing tunnel 18 feet in diameter, extending from the lake at Edgewater Park, near the foot of Barrett street, thence under the city in nearly a direct line to the Cuyahoga River upon the Infirmary farm, near the foot of Valentine street produced.

By the use of a large propeller wheel pump, to be located on the lake end, lake water can be pumped through the tunnel in quantity sufficient to displace the entire volume of water in the Cuyahoga River from this point to the lake, a distance of about $6\frac{1}{2}$ miles every 24 hours, without injury to abutting property or disturbance to navigation.

A similar plan is in successful operation at Milwaukee and has been for some years, where even worse conditions as to river

pollution prevailed than exist here, owing to the many large breweries and large tanneries located along the river. So satisfactory has the Milwaukee project been that similar treatment has been ordered for the other of its two rivers, also a greatly polluted stream.

The benefits derived from this method of river purification result from the flushing of all waste matter out of the river into the cooler waters of the lake before decomposition and putrefaction take place. Such decomposition is not there likely to take place in such degree as to contaminate our water supply as at present, where the river water is discharged into the lake in an already vitiated condition.

This tunnel, with its pumping plant, would be likely to consume two or more years in construction. By that time our new water supply would be in use, before river flushing could be made available.

The flushing tunnel and pumping plant have been estimated to cost about \$1,000,000.

RIVER AND HARBOR WORK.

Important progress has been made in the steps preliminary to widening the river and opening a channel into the lake at the upper end of the Old River Bed, as already referred to in this report. An opening has been made through the railroad embankment for a bridge over the channel to the lake and a portion of the heavy stone abutment has been completed. The bridge will be 100 feet long, spanning a 60-foot channel for boats and a 40-foot passageway for public travel or car tracks, as may hereafter be determined.

The mouth of the harbor or entrance to the Cuyahoga River is to be very materially improved, it is hoped, the coming season by the entire rebuilding of the West pier by the General Government, about 180 feet west of the present location of the pier, providing the city secures and donates the land for such widening. The negotiation leading to the purchase of most of this property is now already complete, and a wider harbor, ample for the entrance for the largest lake vessels, seems assured.

The widening of the River, as now proposed, upon its westerly side, extends from the Old River Bed to a point 40 feet south of the south line of Elm street.

From Main street, about 885 feet southerly, to a point about 300 feet north of the Superior Street Viaduct, the river has been widened from 35 feet at Main street to about 60 feet near the Viaduct, by constructing an entire new dock 18 feet in width and dredging the channel in front of the same to 19 feet of water, at a cost of \$26,867.87. The cost of additional land not already owned by the City for widening the river between the above points was \$272,697.91.

The river, upon its easterly side, between Seneca and Mahoning streets, was dredged, new docks constructed and widened about 30 feet in its widest part, at a cost of \$11,600.00, during the past year.

During the coming year, if the necessary funds can be secured, the work should be completed from the end of the new dock, about 300 feet north of the Viaduct, to the easterly end of the proposed change, 40 feet south of Elm street. This work will cost about \$30,000.00, exclusive of the reinforcing of the abutment of the Viaduct, which latter is estimated to cost as much more. A portion of the land for such widening has already been secured and negotiations are now pending for the balance.

There are several sections of the river above this point which should receive the attention of the authorities. One is the point near the intersection of Columbus and Leonard streets, where the very narrow channel of the river is obstructed by the center pier of the C., C., C. & St. L. Ry. freight bridge, where the channel is divided into two extremely narrow openings, one of 54½ feet and one of 55 feet. The bridge is built of wood and is about to be replaced by a new structure. When this is done the center pier should be placed wholly upon one side of the channel, as the city contemplates at Center street and has done at Willow street. No permit should be given the railway company to rebuild this bridge unless the center pier is to be moved to one side.

That part of the river between Middle and Lower Seneca street bridges, and known as "Collision Bend," is one of the most difficult parts of the channel to navigate, owing to the narrowness of the channel and close proximity of the two bridges.

A large strip of land, not less than 50 feet wide in the widest part, should be taken from the right or east bank of the river between Middle Seneca street bridge and the Valley tracks, and a small strip from the apex of the curve on the left bank, and added to the channel width around the curve, for the better handling of large vessels. This should be supplemented by the rebuilding of the bridge at this point, known as Middle Seneca street bridge, and placing the center pier out of the channel and wholly upon one side of the river, as hereinafter referred to in this report.

A small triangle of land should be secured from the northerly side of the Cincinnati slip, near the end of Ohio street, to increase the width of the slip and better facilitate the winding of vessels at this point. This land, with the necessary docks and dredging, has been estimated to cost about \$10,000.00.

Additional land should be secured for extending the 60-foot channel now being constructed at the head of the old riverbed by the L. S. & M. S. Ry. Co., from the north line of said company's right of way to the lake, presumably about 500 feet. The cost of this work with the necessary land may be roughly stated at \$50,000.00.

At the request of the Council an estimate was made of the cost of a preliminary pier, to be afterwards enlarged and extended, at the foot of Willson avenue, the cost of which it was reported would be about \$36,300.00.

Sooner or later the question of straightening the river at Jefferson street must be taken up, as a new north abutment for the bridge at this point is at once a necessity, and the bridge itself must soon be renewed. The channel of the river at the bridge is very confined and crooked, and is subject to the worst ice gorges in the entire river. A new channel should be placed about 500 or 600 feet to the west. This work, including land, docking and dredging, exclusive of a new bridge, would cost about \$110,000.

In the rebuilding of all river bridges, wherever practicable, and as soon as possible, all center and other piers should be removed from the center of the channel, whether the bridges are used for highways or railroad purposes.

The low stage of water in the river and lake, noted in my last Annual Report has changed during the last year from 1.3 and 1.6 below to only about .8 feet below government zero, which is the base of reference on all river and harbor dredging, both by the United States Government and the City; this base is 2.34 feet below the City base of levels.

The channel has been dredged to a uniform depth of 19 feet below zero, with a width of 130 to 140 feet wherever practicable, except in the river between the N. Y., P. & O. bridge near Broadway and the weighlock, where the channel was dredged to somewhat less depth. The river dredging contract has been renewed for another five years, and extends to the easterly limits of the City. The price per cubic yard is 12 cents, including logging, but logging done in sections of the river not heretofore dredged is paid for at the rate of \$8 per hour of actual work. The price per cubic yard includes removal to the dumping ground in the lake east of Case avenue. The amount of dredging done during the year 1897 was 164,296 cubic yards, and cost \$22,346.43; this amount is nearly double the amount of the preceding year.

The Erie street extension work into the lake has made substantial progress during the year. The 20 foot pile and timber pier has been extended into the lake along the easterly line of Erie street about 600 feet beyond the point where the work was left off last year, at a cost of \$17,531.96, and now ends about 1,144 feet from shore. From near this point a pier should be deflected to the left at nearly a right angle, and continued westerly about 24 feet wide towards Seneca street, about 600 feet from and parallel with the United States government dock line, if the same is extended east of Seneca street on the same line as now fixed west of that point, as seems most desirable for the City, giving more room for a public landing, or pleasure ground, as the same shall hereafter be used.

The Secretary of War has, however, fixed the harbor-line, not as an extension of the line west of Seneca street, where it is about 1,800 feet from the shore, but deflecting from that point towards land, until at Erie street it is near the end of this year's work, instead of 600 feet farther into the lake, as it should be. It is hoped that the Government will change the present order

and continue on the straight line up to and past Erie street, at least. This harbor-line is 1,700 feet south of the breakwater, wherever that may be located.

The westerly or 24-foot pier, as proposed by the City, could be used as the southerly end of slips, if constructed out 600 feet, to the northerly boundary of the proposed extension of Lake View Park, as this reclaimed portion of the lake may hereafter be used.

During the year the pile protection heretofore begun has been completed from Erie street westerly to a point 731 feet west of the west line of Erie street, and about 235 feet from and parallel with the shore, and is designed to protect the land being made at this point from cellar excavations, etc., from being washed away and carried out into the harbor. This protection is a requirement of the government authorities. About \$11,685.00 has been expended on this work, of which about \$4,200.00 has been this season. Additional funds have been asked for to extend the pier westerly, as above suggested.

It is estimated that not less than 175,000 cubic yards of earth have been deposited in the lake at the foot of Erie street since it was opened as a public dumping ground three years ago, thus adding not less than 4 acres of ground to Lake View Park without cost to the city, except for labor in spreading the earth as received.

VIADUCTS AND BRIDGES.

Willow street swing bridge, referred to in my report of 1896 as being in process of construction, was completed and opened to travel about August 17th of this year.

The amount reported as expended in 1896 on this work was \$31,622.49. The amount expended to complete the same, as shown in Table No. 4 of this report, is \$52,309.61, including superstructure, land damages, etc., which, with \$10,100.00 previously paid for land, makes a total to date of \$94,032.10. To this amount should be added the sum to be paid to the Cleveland & Pittsburgh Railroad Company for a triangular piece of land not yet acquired at the extreme easterly end of the bridge when opened. The price asked for this land is \$3,000.00, which, if added to the above amount, would increase the cost to \$97,032.10.

This land should be acquired at once, as the bridge is only enabled to swing in one direction at present, which is, at times, dangerous both to the bridge and to navigation.

This bridge is operated by electricity and is giving excellent satisfaction. The height of the bridge is sufficient to allow the majority of all river tugs to pass under it without swinging, by lowering their smoke-stacks. This rule should be enforced, as the present ordinances of the city fully cover such cases, and its observance would save fully half the number of swings.

Work upon the north approach to the Willson avenue overhead bridge has been so far completed that the 60-foot girder span, which is the balance of the city's portion of the work, is now in process of erection, and it is hoped will be finished not later than February 1, 1898.

The pavement for the north approach is under contract, and bids have been received for the south approach, both will be completed as soon as the weather permits.

The embankment, masonry abutment and pedestals for a steel bridge over the tracks and the south approach to this bridge to be built by the N. Y., C. & St. L. Ry. Co., are completed, and the superstructure has so far progressed that the entire structure, it is hoped, will be completed not later than March 1, 1898.

The entire structure will be about 1,105 feet long, and will extend from a point 125 feet north of Julia street on the north, to Bower street on the south. The roadway of the bridge will be about 25 feet above the tracks of the N. Y., C. & St. L. Ry., with a descending grade of $\frac{1}{2}$ foot per 100 feet to the north and about $2\frac{1}{2}$ feet per 100 feet to the south. The whole structure will cost about \$105,000.00, of which amount the N. Y., C. & St. L. Ry. Co. will pay about \$70,000.00, the city \$25,000.00, and the Cleveland Electric Railway Company \$10,000.00. This structure, when completed and in use, will be the most noticeable improvement of the year.

A portion of the land required in the construction of the new Center street bridge has been purchased and the balance is being secured by appropriation or purchase. This bridge will be of the ordinary pivot pattern, with the center pier wholly upon the westerly side of the channel. One arm of the bridge will be about 145 feet and the other about 100 feet long. This should give fully 114 feet clear waterway for vessels.

The bridge, with foundations, motive power and the necessary land will cost about \$120,000.00, and, it is hoped, will be completed without delay, as the present structure should have been replaced by a new and modern bridge of wider roadway and channel, and quicker movement long ago.

Middle Seneca street bridge, to which attention was called in my former report, should be supplied with a new turntable and with new motive power, as the slow movement of this bridge by hand power, in its peculiar location, is a source of great delay to public travel, and the proper navigation of the river, which at this point is both crooked and narrow, and well deserves its name of "Collision Bend."

If the necessary funds were at hand, or can be secured for next year, I recommend a more radical treatment of this part of the river by the entire removal of the present bridge, with its pier in the center of the channel, and the erection of a new and much longer structure, with its center pier wholly upon the west-erly side of the channel, the purchase of two triangles of land for bridge purposes, and a further purchase of land from the right and left sides of the channel below the bridge to allow an easier and wider passage for vessels at this sharp deflection of the river. Such change would give a clear channel at the bridge of about 125 feet. Below the bridge the channel could be widened from 30 to 50 feet in its most difficult part. The new bridge would cost about \$75,000.00; additional land for the same perhaps \$30,000.00 more. The land for widening the channel below this point, as suggested, might add \$35,000.00, which latter expense should be charged to River Widening.

The expense of such change would be about \$140,000.00. The present structure could be moved to the proposed new channel, which has been suggested for straightening the river about 500 or 600 feet west of Jefferson street bridge, where the channel would be nearly straight for some distance upon either side, and this bridge with a pier in the center of the channel would serve an excellent purpose. Its removal and erection in the new location, I think, would not cost to exceed \$40,000, not, of course, including land, docking and dredging for the new river channel, which latter might of itself cost from \$100,000.00 to \$120,000.00, and should be charged to River Widening.

Jefferson street bridge is an old structure and must soon give place to a new one. The north abutment is so far undermined as to require renewal this season, or at a very early date, to prevent accidents. This is estimated to cost about \$12,000.00. To build a new bridge at this location is inexpedient, as the river is so crooked and confined at this point that it is subject to the worst ice gorges in the entire river. It is therefore evident that both a new bridge and a new channel at this point are matters for serious consideration.

Land, with necessary slope rights, for the new Willett street Viaduct over the valley of Walworth Run has been secured to the amount of \$10,415.95. The additional land required may increase the amount to \$13,000.00. In my annual report of 1895, I estimated the cost of this structure, not then authorized, at from \$110,000.00 to \$120,000.00, but for some cause the amount appropriated for this work was only \$90,000.00, including land damages. This amount I deem insufficient for the erection of a suitable structure at this important crossing, and would recommend that an additional \$15,000.00 be asked for at the coming session of the Legislature.

As planned, the structure will be of steel, 56 feet wide and 900 feet long, including earth approaches. There will be a 40-foot roadway and two sidewalks of 8 feet each.

Land and slope rights will be required for the Warner road improvement to the amount of about \$14,000.00. The work is already advertised for the new 25 foot span stone arch culvert over Mill creek as a part of the improvement, and work is expected to commence early in the spring.

The embankment, which is the largest part of the improvement, raises the grade of the street at the intersection of Turney avenue about 16 feet, and is designed in part to carry the sewage from the State Hospital for the Insane across the valley of Mill Creek to the city sewer in Broadway, for which purpose the State is to contribute \$10,000.00 toward the improvement.

It is claimed that this appropriation will lapse in February next if the money is not used before that time. Steps should be taken as soon as the Legislature convenes to extend the time of payment, as it will be impossible to use the money before that time.

The close proximity of Mill Creek to the heavy embankment at the intersection of Turney avenue made it necessary to purchase additional land and slope rights, pushing the embankment farther away, or to construct heavy and more expensive retaining walls along the stream. The former plan is much cheaper and better and has been adopted.

The improvement will extend from Broadway to the city limits at Grand Division avenue, and will cost, approximately, \$42,583.00. Of this amount the city is to pay for the culvert, street intersections, and one-fiftieth of the entire expense. The State, as aforesaid, will pay \$10,000.00. Sixty per cent. of the balance, including land damages, is charged to the property on Warner Road and 40% to all the property in the city upon the west and south sides of Mill Creek.

Seneca street wooden bridge, extending over the tracks of the C. & P. R. R. and the L. S. & M. S. Ry. east of the Union Depot, was completed early in the season, at a cost of about \$8,500.00. The bridge has a 16-foot roadway, and a 4-foot sidewalk upon the easterly side. It consists of a single span of 160 feet over all the tracks, and an inclined roadway extending easterly about 400 feet, making an easy approach to the lake at this point. The bridge is at present used by teams conveying earth to the lake for filling, as is being done at Erie street.

The widening of the river upon each side of Main street bridge will necessitate a new west abutment or the reinforcement of the old one. This should be a part of River Widening, and would cost, with new docks and dredging, from \$12,000.00 to \$16,000.00.

The changing of the channel under the Superior street Viaduct will also necessitate the reinforcing of the heavy stone abutment supporting the westerly end of the draw span, and also the easterly end of the last of the series of heavy stone arches of the Viaduct. This work is estimated to cost \$30,000.00 or more, and will be incident to and a part of the cost of River Widening.

Land has been secured for the proposed bridge to connect Martin and Praha streets to the amount of \$3,725.00. The additional land required at the westerly end and slope rights at the easterly end will add about \$8,275.00 more.

This bridge will open a new and important crossing over the tracks of the N. Y., P. & O. R. R. The structure, which will be of steel with earth approaches, will be about 675 feet long, and is estimated to cost, with land and damages, about \$37,000.00, and is expected to be completed in 1898.

Marked progress has been made by the L. S. & M. S. Ry. Co. toward the construction of the stationary bridge under its tracks at the head of the Old River Bed, as per agreement between the company and the City of last year.

This bridge will be 100 feet long, and will span a 60-foot channel to be dredged and docked for the passage of tugs and small craft into the lake at this point. The bridge will also span a 40-foot roadway alongside said channel, to be used as a highway or for the passage of railroad tracks to the lake front, as may hereafter be determined by the City.

Piling has been driven to support the tracks of the company, an open passageway excavated the full width of the bridge, and one abutment is now well under way.

Winslow street bridge, over the tracks of the N. Y., P. & O. R. R., should be renewed by the railway company and made the full width of the street. This bridge is very old, very narrow and too light for the occasional heavy loads passing over the same. It should be rebuilt by the company the coming season.

The painting of the Central Viaduct, commenced in 1896 and partially completed, should be finished next year without fail, as should also the iron portion of the Superior Street Viaduct.

The stability and safety of these important structures depend upon their immunity from rust, far more than from wear.

The roadways, including paving and flooring, on the Central, Kingsbury and Pearl Street Viaducts are being, or are to be, replaced by a double course of white oak plank in each case except the east half of the roadway on the Pearl Street Viaduct, where creosoted white pine flooring planks and 5-inch paving blocks are to be substituted for the long leaf southern pine flooring planks and paving blocks heretofore used on all the viaducts with little success, as the paving blocks especially have lasted only from 4 to 5 years, decaying long before they are actually worn out.

About \$7,600.00 has been expended upon the Central and

Kingsbury Viaducts. About \$13,280.00 will be required to complete the same, of which amount \$6,730.00 is under contract. Bids have been received for the material for the Pearl Street Viaduct to the amount of \$1,400.00. It is expected that the work will be completed during the winter.

At the request of His Honor the Mayor, made early last spring, I have had the Central Viaduct structure thoroughly inspected in every part by expert engineers outside of my department, who report that they find the structure in safe and perfect condition in all its parts, except that the iron work should be painted and that the flooring plank should be renewed in several places.

This report corroborates the report made to me in 1896 by the Superintendent of Bridges, as to the good and safe condition of this bridge, as referred to in my annual report of last year.

Such examinations and reports upon these large structures are reassuring to the administration and to the general public, and should be more frequently made.

While on the subject of bridges I cannot refrain from strongly impressing upon the administration and Council the necessity of using every effort to have the piers of all railroad swing bridges removed from the center of the channel and placed upon one side whenever a permit is asked for, or an attempt made to rebuild or renew any of the present structures so located, or to build new ones.

The City should be equally observant of such a policy in regard to its own bridges.

SURVEYS.

The surveys made during the year, as given in Table No. 9, number 245.

The principal surveys of the year were the surveys of Morgan Run valley, from Broadway to the Cuyahoga River, and of Kingsbury Run valley, from Kinsman street to the Cuyahoga River.

All the adjacent street and original lot lines, and many property lines, were defined, and a general topography of the territory mentioned was made.

An extensive and thorough survey was made of streets located in the Barber and Lord's allotment, within the territory bounded by Monroe, Willett, Fulton, York and McLean streets. The street lines were determined, according to the record of said allotment.

Surveys were also made of the Lake Shore Boulevard, from Doan street easterly to the first angle east of Adams avenue in Collinwood, and of the parcel of land, and its topography, purchased by the city for the intercepting sewer outlet.

The following surveys were made for the opening and extension of streets: Central avenue, from Alanson street to Doan street; Woodward place, from the present easterly terminus to Republic street; Halsey street, from Cedar avenue to Quebec street; Brownell street, from Woodland avenue to Orange street; Gustave court, from its westerly end to Brighton street.

Surveys were also made for both of the routes for the proposed Willett street viaduct, for the Martin-Praha street bridge, and of Warner road, Turney avenue, and approaches thereto.

Alignments and elevations were given for all bridges and culverts, etc., constructed during the year.

As has been the custom for several years past, surveys were made of all streets previous to their improvements.

An unusually large amount of office work was done, caused by the many appropriation cases, the Cuyahoga River improvements, and the indexing, keeping up and classifying of the records.

Surveys for the location of lost or displaced monuments is also a large item, as will be seen by reference to Table No. 15.

SUBDIVISIONS AND PLATS.

Thirteen (13) plats of maps or subdivisions were submitted to the Division of Surveys for examination and correction, before being approved by the Board of Control and Council. The list, with name and location of plat, and the date of its approval by the Council, will be found in Table No. 10 of this report.

NEW STREETS AND ALLEYS.

Thirteen (13) new streets and alleys were laid out and dedicated to public use in the new subdivisions, aggregating $1\frac{1}{4}$ miles in length.

The name, length and location of the new streets and alleys, with the date of dedication will be found in Table No. 14.

STREET MONUMENTS.

With the growth of every city, and the increasing values of land property incident thereto, the location and preservation of all monuments designating street and property lines, becomes each year, more imperative and vital.

The most serious menace to the preservation and safety of street monuments is the construction of sewers, water and gas mains, electrical conduits and car tracks, which are each year becoming more numerous and aggressive, as they crowd upon each other for the occupancy of public streets.

More than usual care has been taken this year to preserve the location of these monuments when making street improvements. When the location of monuments are matters of public record with the County or City, or are known to this office, their locations are referenced and carefully guarded by cross lines, stakes and points set by instrument, before the improvements are made or the monument disturbed.

All such stakes, lines and points are carefully guarded and frequently tested and strengthened, from time to time after the improvement has been completed, and until the ground has ceased to settle or change position, when the monument is then reset from the same reference points made before its removal.

All such reference points, lines and stakes are platted in proper books kept in the office vaults, and are open to the inspection of all surveyors, under proper regulations.

With all our care, some monuments are lost and have to be replaced, often by extensive surveys, and even then there is often a suspicion, quite often a direct charge, that the monument was not replaced in its original position.

The referencing, care, replacing and preservation of all street monuments should be placed in charge of one party in the Division of Plats and Surveys, who should be held strictly accountable for all losses and displacements of street monuments and landmarks.

Street monuments are usually made of stone, from 24 to 30 inches in length, 8 to 10 inches square at the base and dressed to 6 inches square at the top, with a $\frac{3}{8}$ -inch hole from 1 to 2 inches deep drilled in the top at its center.

River survey monuments, defining established dock lines, are similar in form, with "R. S." and number of such stone cut in top.

Number of monuments referenced during the year.....	239
Number of monuments reset from reference	89
Number of monuments tested.....	121
Number of monuments reset from surveys.....	68
Total.....	517

HOUSE NUMBERING.

Nineteen (19) streets were numbered or re-numbered by this department under special resolution of the Council; the length of the streets was $7\frac{3}{4}$ miles.

Surveys are made of each street numbered and all buildings accurately located upon the street. A number is assigned for each 20 feet of space in the residence and 15 feet in the heavy business portion of the City, without reference to lot frontages.

Under the present system of street numbering, No. 1 commences on the right hand side of all streets, at the northerly or lake end of all streets running in a northerly and southerly direction, and at the river end on all streets running in an easterly and westerly direction.

The present method of placing the numbers upon the houses, after the surveys are completed, maps made and numbers assigned by this office, is entirely unsatisfactory both to the property owners and to the City.

The person designated as house numberer is allowed to collect 25c. from each house owner, after painting and placing upon

house the proper number, which consists of plain black figures on a small zinc plate tacked to the building. Very many persons do not pay for such a number, often because of its cheapness, or because they did not want their houses re-numbered, or because they had no money at hand to pay for the same and refuse to allow their old numbers to be changed.

In my judgment, the City should pay the cost of putting up street numbers, and after a reasonable time should cause the old numbers to be removed from the houses to prevent the duplication of numbers upon the same street. This work should be done by the Police Department, or by a proper officer clothed with police powers, as no other would be likely to succeed in securing where serious objections are sure to be made to such a change, if done well and thoroughly.

On the streets numbered during the year 4,100 numbers were placed, 626 buildings were located and platted and 654 numbers were put up.

STREET LEVELS AND CROSS-SECTIONS.

Levels are run and profiles are made of all streets and alleys so that the grade can be established or any kind of improvement can be made upon them. If the street is to be graded or paved, cross-sections are made and quantities worked out in advance of the improvement.

One hundred and fifty streets and alleys were leveled or cross-sectioned during the year, aggregating 22.9 miles.

STREET GRADES ESTABLISHED.

Ordinances were written and grades were established on 44 streets, aggregating 9.9 miles. One or more working profiles are made of each street, and one is also platted in the profile books, to which reference is made by volume and page in the ordinance establishing the grade.

ZERO OR BASE OF LEVELS.

All street improvements are made from the same datum or base of levels, which is described in an ordinance of the Council, passed in 1854, as being the (then) surface of water in Lake Erie,

2 feet below the south end of the stone parapet wall of the old U. S. Government pier at the mouth of the Cuyahoga River. This plane was said to be 564 feet above tide water at Albany. Recent and more accurate levels place the elevation somewhat greater above tide water at that point. The original "bench mark" described in the ordinance referred to has long since disappeared, but not until scores of elevations had been taken from it and transferred to more permanent and accessible points throughout the city, and are matters of public record.

The datum, or "zero of water gauge," as it is termed, used in all dredging work is the U. S. Government zero, and is 2.34 feet below the city base, which latter, owing to the receding of the lake surface, is now from $2\frac{1}{2}$ to $3\frac{1}{2}$ feet above the latter.

STREET LIGHTING.

The streets of the city were lighted at the close of 1897 by 5,249 gas street lamps, 4,460 vapor street lamps and 854 electric street lamps, a total of 10,563 lamps.

This shows a decrease of 849 gas lamps, 175 vapor lamps and an increase of 354 electric lamps, making a total decrease in number during the year of 670 lamps.

The total cost of gas, lighting, extinguishing and	
taking care of the gas lamps for the year is...	\$ 97,818 14
The cost of vapor lamps is.....	66,319 25
The cost of electric arc lamps is.....	62,778 20

The total cost is.....	\$226,915 59
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The cost of lamp posts, lanterns, supports, tips and burners, repairs and new work is \$7,578.19.

The cost of lighting the City Hall \$3,144.88, and of lighting Superior Street Viaduct \$30.88; the salary of the Gas Inspector is \$1,000.00.

This makes the total cost of lighting the public streets, the City Hall and the Superior Street Viaduct for the year \$238,669.54.

The cost for each gas lamp, including gas, care and maintenance, is \$16.78 per year of 3,760 hours on the east side of the

, and \$16.85 per year on the west side of the river, and for lighting the cost per lamp is \$13.98 per year. A deduction made on the vapor lights for diminished candle power and hours of burning, which during the year reduced the average cost per lamp to \$12.52.

The cost of electric arc lamps of 2,000 candle power per year is \$4.80 per lamp.

In gas lighting the city owns all lamps, posts, service pipe and fixtures. In vapor lighting the city owns the posts only, and in electric lighting all lamps, wires and fixtures are owned by the electric company.

The number of electric lamps was increased nearly 70% during the year, showing the increasing popularity of this light, although the cost is materially greater than other lights.

The 344 new arc lights erected during the year cost \$8,542.45 more than the 1,391 gas and vapor lights which were displaced and would have cost.

Each new arc lamp lighted during the year displaced upon an average of 4.2 gas and vapor lamps. To make the cost equal those displaced, the average should be 5.6 for each new arc lamp. This is largely due to the fact that our blocks are longer and are found in most cities, and less frequent intersections, so that each arc light displaces a greater number of gas or vapor lamps than can be done by the intermediate lamps.

The price of gas to the City and to private consumers is 80 cents per 1,000 cubic feet.

Both gas companies pay into the City Treasury $6\frac{1}{2}\%$ of their gross receipts each year, which amounted to about \$58,300 in 1897. This fund is now about \$271,600, and is to be used for the erection of a new City Hall.

SIDEWALKS.

All sidewalks are laid by or at the expense of abutting property owners.

Resolutions are passed by the Council, requiring flagging to be laid on certain streets. At the close of the season, all walks not laid, as ordered, are placed upon the tax list as delinquent. The tax is collected for the same, and the work is done by the city the next season.

10,935 square feet of walk were reported as delinquent, and after delays occasioned by readvertising and other causes, a contract was entered into with M. P. Platten to lay the walks, but owing to the lateness of the season only 4,202 square feet were laid in 1897, leaving a balance of 6,733 square feet to be laid in 1898, together with 540 square feet to relay, including about 200 cubic yards of excavation to be done in connection therewith. The price for new sawed flagging laid is $12\frac{1}{2}$ cents per square foot.

By far the greater portion of all the flagging in the City is laid by the owners, either with or without notice from the City. Table No. 21 shows that 8.97 miles of sidewalk grades were given during the year by this Department. Assuming that 90% of the length of streets was laid with 6 foot walks, and the balance with 5 foot walks, we have the approximate sum of nearly 279,500 square feet of flagging added during the year, to the very large amount of flagging already laid in the City, which is a notable feature of Cleveland streets.

HOUSE SEWER AND WATER CONNECTIONS.

The putting in of all necessary water and sewer connections to curb line in advance of the paving of any street or alley is made compulsory when ordered by the City, and if not put in by the owner after due notice—usually ten (10) days—the work is done by the City and charged against the lot owner and is paid with his other taxes.

Connections carried to the street line and into the lot are voluntary on the part of the owner, except in cases where the Health Officer declares a nuisance, in which case the connection is made obligatory.

All sewer connections are put in by licensed sewer builders, who receive a yearly license to do such work. There were 104 persons licensed to put in sewer connections and 131 licensed plumbers in 1897.

One dollar and fifty (\$1.50) cents is paid to the City by the sewer builder for each permit taken out, and is used to defray, in part, the cost of inspection, but it is insufficient for this purpose, and the City is at an annual loss for inspecting these connections.

price should be \$3 for each permit, the same as when the ordinance was first passed. The City should then do the puddling trenches. This puddling is now imperfectly done by the builder, or often not done at all, and is thereafter a source of public complaint, and also serious complaint from the paving contractor, who must guarantee the pavement he afterwards lays out. All water connections are in charge of the Water Works Department.

A careful examination of each lot of the 36 streets thereafter paved showed that 5,256 connections, both sewer and water, were required to accommodate the property on these streets. Of this number required only 3,657 connections were found already in place, requiring 1,599 new ones to be carried to the curb line. The property owners put in 1,559 of these connections and the City paid 40 to go delinquent, being a little more than $2\frac{1}{2}$ per cent. of the number to be put in. These were put in by the City at the expense charged against the owners. This work is in charge of the Notice Clerk, and all work is done under his supervision.

The Permit Clerk issued 3,184 permits for house sewer connections of all kinds during the year: 2,678 of these permits were for new connections and 506 for repairs of old connections or extension of others from curb line to property; 907 of the sewer connections put in were ordered in to the curb line by the City in advance of paving. Of the remaining 1,790 voluntary connections put in by the owners, only 75, or a little more than 4 per cent., were put in where pavement had to be displaced. This shows the wisdom of requiring all connections to be put in to curb line before pavements are put down.

All of the above work, except connections ordered to curb line, was in charge of the Permit Clerk and done under his supervision.

All connections are put in under the City's supervision as to the manner of doing work, depth of sewer, grade and alignment, location at curb, location where connection enters the lot, size of connection, and as to whether it was made with the registered sewer junction for such lot, or whether a new opening had to be made in the sewer, all of which is reported to the office and proper records made.

All repairs to pavements taken up to put in sewer and water connections are made by the City and the expense charged directly to the sewer builder or plumber, and by them to the property owner for whom the work was done.

Previous to last year these charges were made after the work was done, and were often very difficult to collect and quite often were never paid, resulting in a loss of many hundred of dollars to the city.

Following a suggestion made in my former report, an ordinance was passed by the Council in March, 1896, requiring payment in advance of the estimated cost of the pavement to be relaid, based on a schedule fixed by the Director of Public Works.

FRONTAGE AND OWNERSHIP MAPS.

Tracing and blue print maps for street improvements were made by the Draughting Department for 185 streets, aggregating 50.26 miles.

These maps show frontages and owner's names, for use in the City Clerk's and Auditor's departments in serving notices of proposed improvements and making up assessment sheets for the same. Other maps showing frontages only are made for the Sewer Department for sewer plans to be presented to the Board of Control for adoption.

ELECTRIC SUBWAYS AND CONDUITS.

Under the authority of Section 1090 of the Codified Ordinances of the city, and of said section as amended August 24, 1896, a large amount of electrical conduit work has been done during the year.

Under the provisions of said amended section, all electric wires now in use in all of the main thoroughfares in the downtown district, are ordered placed underground within 1 to 4 years, as in each case specified.

The Western Union Telegraph Company has, during the year 1897, constructed 1,822 lineal feet of subways or conduits, and has placed therein 3,322 feet of wrought iron pipe, making a total of 8,877 feet of conduit, and 18,955 feet of pipe in the City.

The Postal Telegraph Company now has 14,236 lineal feet of conduit in the City, inclosing 64,305 lineal feet of iron pipe, and no work in 1897.

The American District Telegraph Company has 5,000 lineal feet of subway, inclosing a like amount of 3 inch iron pipe, in the City, but added nothing in 1897.

The Cleveland Telephone Company put down 14,219 lineal feet of subway this year, inclosing 81,556 lineal feet of terra cotta pipe during the year. The Company now has 95,532 lineal feet of subways, inclosing 659,183 lineal feet of terra cotta pipe in the City.

The Home Telephone constructed during the year 4,471 lineal feet of subways, inclosing 31,064 lineal feet of terra cotta pipe, making a total in the City of 15,740 feet of subways, inclosing 116,347 lineal feet of pipe.

The Cleveland Electric Illuminating Company put in 15,176 lineal feet on conduit during the year, inclosing a like number of wrought iron pipe from 1½ to 3 inches, and 4½ inch terra cotta in diameter. The company now has 58,176 lineal feet of conduit in the City, and about 245,797 lineal feet of pipe.

The total amount of subways of all kinds in the City at the end of 1897 is 37.84 miles, inclosing 1,117,362 feet of pipes. All manholes disturbed were taken up and put down by the company, under City supervision. Table No. 22 shows the amount of conduit work done during the year in detail.

CONCLUSION.

The following 22 tables will give you in detail the work of several divisions of the Department. The vast amount of work which requires the time and energy of the office is not and cannot be shown in the tables, and only those like yourself, frequent this office can well appreciate the amount and extent of this unclassified work.

In conclusion, I desire to express to you my appreciation of your forbearance and kindness extended to me and my Department and by Deputy Director W. P. Chard, in the discharge of official duties.

To His Honor the Mayor, and to the several members of the Board of Control and Council I also wish to express my appreciation of courtesies received at their hands.

I also desire at this time to express both my personal and official recognition of the services rendered this Department and to the city by the various members of Divisions. To Mr. C. G. Force, Assistant Chief Engineer; to W. H. Burns, of the Division of Roads and Pavements; E. E. Boalt, of the Division of Sewers and Drains; J. T. Pardee, of the Division of Viaducts and Bridges; A. Strehler, of the Division of Plats and Surveys, and Otto Dercum, Chief of the Draughting Department, as the heads of their respective divisions, and to all the members of the force I desire, at this time to express my appreciation of the efficient services rendered by them during the year just closed.

Yours, very respectfully,

M. E. RAWSON,

Chief Engineer.

Cleveland, O., January 21, 1898.

SUMMARY OF WORK SHOWN IN ACCOMPANYING TABLES.

CLASSIFICATIONS.	AMOUNT.
Street paving.....	\$ 243,655 70
Street grading and curbing.....	9,427 25
Sewers constructed.....	402,454 97
Miscellaneous work and street lighting.....	788,905 21
Total.....	\$ 1,444,443 13

PROSPECTIVE WORK FOR 1898.

Work in progress. Approx. cost to complete.....	\$ 578,217 11
Paving, grading, etc. Approx. cost.....	715,328 00
Bridges and river widening. Approx. cost.....	597,242 00
Sewers. Approx. cost.....	2,995,112 00
Total.....	\$ 4,885,899 11
Street improvements for which estimates, resolutions and ordinances have been prepared.....	1,239,214 44

MISCELLANEOUS TABLES.

Surveys made.....	245
Plats and sub-divisions approved.....	14
House numbering maps made.....	19 sts.=7.75 miles
Streets cross-sectioned.....	150 sts.=36.13 miles
Street grades established.....	44 sts.=9.9 miles
Streets and alleys dedicated.....	13 sts.=1.24 miles
Street monuments set.....	68
House connections, notices, etc.....	1,599 put in
House connections constructed.....	3,184
Street lighting, cost, etc.....	\$238,669.54
Summary of street lighting, etc.....	10,563 total No.
Ownership and frontage maps made.....	184 sts.=50.28 miles
Sidewalk lines and grades given.....	34 sts.=8.87 miles
Electric subways and conduits.....	35,688 subway, lin. ft. 296,339 pipe, lin. ft.

TABLE NO. 1.
STREETS PAVED OR REPAVED DURING 1897.

Name of Street.	From Street.	To Street.	How Improved.	Cost.	Length in Feet.	Contractor.
Alanson	Central ave.....	Quincy	Brick.....	\$ 3,640 74	1,014	Roehl Brothers.
Alpha al.....	Erie	Oak pl.....	Old Common Medina.....	738 28	226	M. F. Bramley.
Ashley al.....	Huron.....	Bolivar.....	Old Common Medina.....	1,077 41	400	Standard P. & C. Co.
Austin al.....	Waller	Miami al.....	Old Common Medina.....	745 32	312	Standard P. & C. Co.
Barn al.....	Erie	Short al.....	Old Common Medina.....	1,365 62	474	J. N. Kalbrunner.
Bridge.....	Liberty.....	Gordon ave.....	Common Medina.....	8,153 66	2,735	Clafin Paving Co.
Brownell	Scovill.....	Woodland ave.....	Brick.....	4,360 65	913	Standard P. & C. Co.
Center	Detroit.....	Main	Medina Block.....	11,505 28	842	Brennan & Buettner.
Central ave.....	East Madison ave	Alanson	Medina Block.....	11,344 82	1,459	Brennan & Buettner.
Cherry	Perry.....	Cherry al.....	Old Common Medina.....	1,126 69	218	Standard P. & C. Co.
Cherry al.....	Cherry st.....	Odell al.....	Old Common Medina.....	1,718 92	386	Standard P. & C. Co.
Clark ave.....	Pearl	Jennings ave.....	Brick.....	11,187 48	2,255	M. F. Bramley.
Erie et.....	Erie	Brownell	Brick.....	3,566 78	1,173	Standard P. & C. Co.
Franklin pl.....	Franklin ave.....	Fulton	Brick.....	1,134 58	286	Brennan & Buettner.
Gundry al.....	Eagle.....	Central ave.....	Old Common Medina.....	1,240 23	417	J. N. Kalbrunner.
Harmon	Central ave.....	Woodland ave.....	Brick.....	6,941 22	926	Standard P. & C. Co.

TABLE No. 1.—Continued.

Name of Street.	From Street.	To Street.	How Improved.	Cost.	Length in Feet.	Contractor.
Kent al.....	Wood....	Kent	Old Common Medina.....	869 91	214	Brennan & Buettner.
LaGrange	East Madison ave	Inglside ave.....	Brick.....	3,067 85	733	Roehl Brothers.
Lexington	Willson ave.....	East Madison ave.....	Brick.	26,597 59	4,932	M. F. Bramley.
Luverne ave.....	Archwood	Bradwell	Brick.....	5,535 74	1,103	Standard P. & C. Co.
Mayfield	Knox	Fairview ave.....	Old Common Medina.....	15,222 00	1,959	Standard P. & C. Co.
Monumental ct.....	Superior.....	Euclid ave.....	Medina Block.....	4,487 80	255	Brennan & Buettner.
Odell al.....	Orange	Cherry al.....	Old Common Medina.	783 15	162	Brennan & Buettner.
Osborn	Central ave.....	Scovill ave.....	Brick.....	5,495 64	1,279	M. F. Bramley.
Seelye ave.....	Woodland ave.....	Julia.....	Brick.....	8,171 71	1,927	Roehl Brothers.
Spangler ave.....	Hough ave.....	644 feet southerly.....	Brick.....	2,623 60	644	Roehl Brothers.
State	Detroit	Franklin ave.....	Brick.....	4,882 56	892	M. F. Bramley.
Sumner.....	Brownell	Erie	Brick.....	4,173 69	1,172	Standard P. & C. Co.
Van Buren	Central ave.....	Quincy.....	Brick.....	4,330 29	929	Roehl Brothers.
Vine	Scovill ave.....	Woodland ave.....	Brick.....	4,468 97	925	Standard P. & C. Co.
Ward.....	Lorain.....	Monroe.....	Brick.....	5,805 37	1,150	Brennan & Buettner.
Waring.....	Payne ave.....	Perkins ave.....	Brick.....	4,581 09	914	M. F. Bramley.
Waverly ave.....	Detroit.....	Lorain.....	Brick.....	16,596 00	3,108	Roehl Brothers.

TABLE No. 1.—Concluded.

Name of Street.	From Street.	To Street.	How Improved.	Cost.	Length in Feet.	Contractor.
Webster	Erie	Brownell	Brick	\$ 6,949 19	1,165	M. F. Bramley.
Willow	Bridge approaches .....	.....	Medina Block	2,408 82	248	Cladin Paving Co.
†Willson ave.	Bower	Broadway	Medina Block	29,649 20	4,614	M. F. Bramley.
†Willson ave.	Bridge approaches .....	.....	Medina Block	550 40	356	Brennan & Buettner.
Woodland et.	Woodland ave.	Southerly	Brick	3,379 60	938	Reehl Brothers.
York	{ Franklin ave.	Bridge	Brick	13,258 65	2,392	M. F. Bramley.
	{ Carroll	Monroe				

Brick paving

\$150,728 39

30,770 feet = 5.83 miles.

*Amount expended during 1897 to complete.

Medina Dressed Block paving. ...

59,946 32

7,774 feet = 1.48 miles.

†Amount expended during 1897, work not complete.

Common Medina paving

32,980 99

7,503 feet = 1.42 miles.

46,047 feet = 8.73 miles.

Totals

\$243,655 70

ENGINEER'S REPORT.

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Name of Street.	From Street.	To Street.	How Improved.	Cost.	Length in Feet.	Contractor.
Anthony	Ridge ave.....	Westerly.....	Grade.....	\$ 120 25	572	Robert Berger.
Berry.....	Ridge ave.....	Easterly.....	Grade.....	103 20	576	H. H. Haslam.
Bismarck ave	Woodland ave.....	Holton.....	Grade.....	643 14	1,412	Robert Berger.
Edmunds.....	Amesbury ave.....	Ansel ave.....	Grade and Curb.....	678 27	570	F. E. Gribben.
Gibbs.....	Martin	Dille.....	Grade.....	30 63	322	H. H. Haslam.
Goulder.....	Macon.....	Laird.	Grade and Curb.....	706 80	708	Cannell & McDowell.
Harper	Central ave.....	Scovill	Grade and Curb.....	928 51	1,051	F. E. Gribben.
* Kennedy.....	Oakdale	Bolton ave.....	Grade and Curb.....	184 00	739	J. N. Kalbrunner.
Mecox	Lake ave	Southerly.....	Grade and Curb.....	714 28	960	F. E. Gribben.
Ocean.....	Woodland ave.....	Bushnell.....	Grade and Curb.....	911 79	919	F. E. Gribben.
Otis	Woodland ave.....	Dell	Grade	89 03	516	J. & G. E. Whitehouse.
Pier	Woodland ave.....	Beaver.....	Grade and Curb.....	597 84	746	F. E. Gribben.
Seymour.....	Pearl	Rhodes ave.....	Grade and Curb.....	2,077 66	2,156	J. N. Kalbrunner.
Tracy.....	Abbey	Willey.....	Grade and Curb.....	811 00	730	J. N. Kalbrunner.
Watterson.....	Detroit	Franklin ave.....	Grade and Curb.....	765 85	722	J. N. Kalbrunner.

* Amount expended during 1897, work not complete.

Grading and Curbing, \$6,427.25.
16 streets, equal 12,960 feet, equal 2.45 miles.

TABLE No. 3.
SEWERS CONSTRUCTED IN 1897.

Name of Street.	From Street.	To Street.	Length in Feet.	Kind of Sewer.	Cost.	Contractor.
Anthony.....	Ridge ave.....	Easterly end.....	210	20-in. Cir. brick.....	\$ 2,069 41	Campbell Brothers.
			385	No. 2 brick.....		
Armitage.....	Willson ave.....	St. Clair.....	162	No. 4 brick.....	3,859 11	Bernard McCarthy.
			385	No. 3 brick.....		
			625	No. 2 brick.....		
Ashley alley.....	Huron.....	Bolivar.....	250	12-in. p'pe.....	249 50	Campbell Brothers.
Alanson.....	Branch sewer.....	At Central ave.....	40	20-in. Cir. brick.....	200 97	Ford P. Beers.
Baker.....	Luther.....	White ave.....	335	No. 2 brick.....	1,862 34	C. T. McCracken.
			300	20-in. Cir. brick.....		
Berry.....	Ridge ave.....	Westrily end.....	664	20 in. Cir. brick.....	2,341 29	Campbell Brothers.
			1,024	No. 3 brick.....		
Bliss.....	St. Clair.....	Becker ave.....	534	No. 2 brick.....	4,601 41	F. P. Beers.
			934	No. 2 brick.....	3,176 73	F. P. Beers.
Bellevue.....	Woodsey.....	Ansel ave.....	290	20-in. Cir. brick.....		
Bertram (Ext.).....	120 ft. N. of Central ave..	55 ft. southerly.....	55	15-in. pipe.....	45 41	F. P. Beers.
Brandon.....	Branch sewer.....	At Mayfield.....	38	No. 4 brick.....	294 87	F. P. Beers.
Cloud.....	Barton.....	Alaska.....	470	15-in. pipe.....	622 80	Frank Hlavin

Name of Street.	From Street.	To Street.	Length in Feet.	Kind of Sewer.	Cost.	Contractor.
Cherry lane.....	Cherry	Odell al.....	430	12-in. pipe.....	\$ 383 54	A. G. Hansen.
Char	Broadway.....	Colorado.....	983	No. 2 brick.....	2,032 72	William Lehman.
Cumberland.....	Bolton ave.....	Oakdale	94	No. 7 brick.....	3,775 10	Clements Bros. Con. Co
Carry.....	Armitage	Wilson ave.....	758	No. 8 brick.....	527 87	William Lehman.
Carabelli	Sublot 11	Mayfield rd.....	452	18-in. pipe.....	1,142 07	F. E. Gribben.
†Case.....	Kingsbury run.....	Woodland ave.....	1,300	12-in. pipe.....	5,023 00	William Eggers.
Chandler	St. Clair.....	1,050 ft. southerly. ...	180	4-ft. Clr. iron pipe....	3,082 17	P. P. Beers.
Columbus.....	West River.....	Lorain.....	306	No. 4 brick.....	6,999 37	C. F. Keuntz.
Churchill and East Lake..	Dean	Parkwood ave.....	67	No. 5 brick.....	3,444 09	W. E. Ambler.
Detroit.....	Scoville lane.. ..	Lowell.....	103	3½-ft. Clr. brick	3,982 62	L. H. Fabey.
Dean place	Harvard.....	Hughes.....	925	No. 2 brick.....	1,068 83	F. E. Gribben.
			441	12-in. pipe.....		
			368	15-in. pipe.....		
			1,112	12-in. pipe.....		
			1,205	No. 4 brick		
			641	15-in. pipe.....		
			606			

TABLE No. 3.—Continued.

Name of Street.	From Street.	To Street.	Length in Feet.	Kind of Sewer.	Cost.	Contractor.
Detroit.....	Lake ave.....	220 ft. W. of Gordon..	<div style="display: flex; align-items: center;"> <div style="border-left: 1px solid black; border-right: 1px solid black; height: 1em; margin-right: 5px;"></div> <div style="text-align: center;"> 349 51 1,360 34 </div> </div>	No. 14 brick..... No. 11 brick..... No. 4 brick..... No. 2 brick.....	\$10,766 00	Bernard McCarthy.
Duane	Woodbine.....	Franklin	<div style="display: flex; align-items: center;"> <div style="border-left: 1px solid black; border-right: 1px solid black; height: 1em; margin-right: 5px;"></div> <div style="text-align: center;"> 403 320 </div> </div>	No. 3 brick..... 15-in. pipe.....	1,236 52	William Lehman.
Erie court.....	Erie	Brownell.....	1,135	No. 3 brick.....	5,484 65	Clements Bros.Con.Co
East court.....	Kirtland.....	Easterly end.....	402	12-in. pipe.....	630 29	Cannell & McDowell.
			<div style="display: flex; align-items: center;"> <div style="border-left: 1px solid black; border-right: 1px solid black; height: 1em; margin-right: 5px;"></div> <div style="text-align: center;"> 34 36 </div> </div>	5-ft. Cir. brick..... No. 6 brick.....		
Forest.....	Kingsbury run.....	Croton.....	<div style="display: flex; align-items: center;"> <div style="border-left: 1px solid black; border-right: 1px solid black; height: 1em; margin-right: 5px;"></div> <div style="text-align: center;"> 109 880 75 </div> </div>	3½ ft. Cir. iron pipe. 3½ ft. Cir. brick, ... No. 4 brick.....	13,840 00	F. P. Beers.
			52	12-in pipe.....		
Gloyd	Superior... ..	Hoffman	985	No. 2 brick.....	3,228 00	N. O. Pav. & Con. Co.
			<div style="display: flex; align-items: center;"> <div style="border-left: 1px solid black; border-right: 1px solid black; height: 1em; margin-right: 5px;"></div> <div style="text-align: center;"> 1,514 540 </div> </div>	No. 6 brick..... No. 5 brick.....		
Gilbert	Clark ave.....	Storer ave.....	580	No. 4 brick.....	11,728 14	F. P. Beers.

Name of Street.	From Street.	To Street.	Length in Feet.	Kind of Sewer.	Cost.	Contractor.
Guy.	Petrie.....	Weekerling.....	724	No. 2 brick.....	\$ 1,000 52	C. F. Keunta.
† Gordon	Breakwater.....	Bridge.....	1,063	6½ ft. Cir. brick.....		
			22	4¾ ft. Cir. brick.....	13,813 33	Bernard McCarthy.
Hinde	Broadway	Tod.....	902	No. 11 brick.....		
Horaco	Green	Willett.....	451	No. 2 brick.	1,168 35	C. T. McCracken.
Hera M.....	Klatsman.....	Trenton.....	332	15-in. pipe.....	347 76	William Lehman.
			950	No. 2 brick.....	2,556 85	Cannell & McDowell.
Harvard.....	Jones ave.....	Broadway ...	550	No. 3 brick.....		
			650	4½ ft. Cir. brick.....	19,056 57	Burgess & Gribben.
			655	5 ft. Cir. brick.....		
Halsey.....	Sayles allotment.....	250 ft. southerly.....	266	15-in. pipe.....	366 32	L. H. Fahey.
Halsey	Quebec.....	530 ft. northerly.....	380	15-in. pipe.....	418 80	D. H. Gawne.
Harvard (overflow).....			275	5-ft. Cir. brick.....	2,730 33	Campbell Brothers.
Jay	Pearl.....	Jersey	545	No. 4 brick.....		
			583	No. 2 brick.....	4,019 07	William Eggers.
Kenmore	Marcy.	Crawford	800	No. 2 brick.....		
			300	20-in. Cir. brick.....	2,865 78	Clementz Bros. & Co.
• Kinkle.....	Pearl ..	Scranton..	290	No. 2 brick.....		
			243	15-in. pipe.....	1,069 50	Campbell Brothers.

TABLE No. 3.—Continued.

Name of Street.	From Street.	To Street.	Length in Feet.	Kind of Sewer.	Cost.	Contractor.
Lussenden ave.....	Central ave.....	Quincy.....	{ 639 230 }	{ No. 3 brick..... No. 2 brick..... }	\$ 2,292 94	Frank Saeger.
Lussenden ave.....	Central ave.....	Northerly end.....	{ 41 346 }	{ 20-in. Cir. brick..... 12-in. pipe..... }	403 58	Cannell & McDowell.
Lane.....	Commercial.....	Canal.....	325	No. 2 brick.....	938 04	C. F. Keutis.
Lake ave.....	L. S. & M. S. Ry.....	Detroit.....	{ 344 856 938 }	{ 7½-ft. brick..... 6¾-ft. brick..... 6¼-ft. brick..... }	32,350 00	L. H. Fahey.
Literary.....	Polton ave.....	Merchant.....	453	15-in. pipe.....	425 41	F. P. Beers.
Library.....	Pearl.....	Westerly end.....	932	No. 2 brick.....	2,076 30	William Lehman.
L. S. & M. S. Ry.....	Lake ave.....	110 ft. easterly.....	96	4-ft. Cir. brick.....	1,539 97	L. H. Fahey.
			{ 135 389 483 }	{ 7½-ft. brick..... 7-ft. brick..... 6¾-ft. brick..... }		
* L. S. & M. S. Ry.....	Alger.....	110 ft. E. of Lake ave.	{ 300 545 1,176 }	{ 6¾-ft. brick..... 6¼-ft. brick..... 6-ft. brick..... }	30,000 00	L. H. Fahey.

Name of Street.	From Street.	To Street.	Length in Feet.	Kind of Sewer.	Cost.	Contractor.
Malden.....	St. Clair.....	Donald.....	{ 765 800 995	{ No. 4 brick..... No. 3 brick..... No. 2 brick.....	\$ 6,849 42	F. P. Beera.
Medina.....	Woolsey.....	Ansel ave.....	{ 1,090 317	{ No. 2 brick..... 20-in. Cir. brick.....	3,671 03	John Moran
Monumental court.....	Ontario.....	Euclid ave.....	346	No 4 brick.....	2,862 83	Campbell Brothers.
Mayfield (Ext.).....	At Fairview.....	.....	70	No. 4 brick.....	237 25	F. E. Gribben.
Nevada.....	Bolton ave.....	Oakdale.....	581	15-in. pipe.....	931 90	C. F. Keunts.
Neville.....	Ridge ave.....	Westerly end.....	758	No. 2 brick.....	2,619 49	Campbell Brothers.
Osborn.....	Central ave.....	Scovill ave.....	{ 650 300	{ No. 3 brick..... No. 2 brick.....	3,483 69	A. G. Hausman.
Orchard place.....	Luverne.....	Northerly end.....	276	15 in. pipe.....		
			376	12-in. pipe.....	350 00	Aiken Brothers.
†Oliver.....	Superior.....	Euclid ave.....	{ 1,000 1,054	{ No. 5 brick..... No. 4 brick.....	6,391 25	J. Connolly & Son.
Procter.....	Willson ave.....	Lyon.....	751	No. 3 brick.....	2,330 78	F. E. Gribben.
*Pearl.....	Brevier.....	Franklin ave.....	408	Brick sewer.....	5,800 00	William Eggers.

TABLE No. 3.—Continued.

Name of Street.	From Street.	To Street.	Length in Feet.	Kind of Sewer.	Cost.	Contractor.
Quebec.....	Oakdale.....	Doan	{ 711 840 340	{ No. 4 brick..... No 3 brick..... No. 2 brick.....	\$ 6,650 35	Bernard McCarthy.
Ruggles.....	Miles ave.....	Pratt.....	582	20-in. Ctr. brick.....	1,318 57	Cannell & McDowell.
Rockford.....	Superior.....	Northerly end.....	482	18-in. pipe.....	829 60	Clements Bros. Con. Co
Remington	Congress.....	Bolton ave.....	616	No 2. brick.....	1,734 68	Frank Sager.
Rawlings.....	East Madison ave.....	C. & P. R. R.....	{ 770 516	{ No. 3 brick..... No. 2 brick.....	3,571 47	F. P. Beers.
Rhodes ave.....	Clark ave.....	750 ft. southerly	788	No. 2 brick.....	1,676 70	C. F. Keunts.
Rockert.....	Petrie.....	Dolloff.....	475	No. 2 brick.. ..	965 20	Frank Hlavin.
Ratland.....	Kinsman	750 ft. southerly	731	20-in. Ctr. brick.....	2,359 23	F. E. Gribben.
Republic place.....	Republic.....	Westerly end.....	374	15 in. pipe.....	221 40	J. Connolly & Son.
Sowinski.....	Woolsey	Ansel ave.....	{ 1,235 375	{ No. 2 brick..... 20-in. Ctr. brick....	3,940 00	A. G. Hausman.
Schaefer.....	East Madison ave.....	Becker ave.....	675	No. 2 brick.....	1,993 04	John Moran.
Stanard	Willson ave.....	Brunswick	722	No. 3 brick.....	2,253 11	A. G. Hausman.
Scottville lane.....	Detroit.....	Lake ave.....	623	3½-ft. Ctr. brick.....	3,400 00	William Eggers.
State.....	Washington.....	Detroit	402	No. 3 brick.. ..	1,023 80	William Lohman.

TABLE No. 3.—Continued.

Name of Street.	From Street.	To Street.	Length in Feet.	Kind of Sewer.	Cost.	Contractor.
Tremont.....	Pelton ave.....	Starkweather av.....	744	No. 5 brick.....	\$ 3,654 20	F. P. Beers.
			490	No. 4 brick.....		
Union.....	Broadway.....	Woodland Hills ave..	735	5 ft. Cir. brick.....	13,719 14	Campbell Brothers.
			903	4½ ft. Cir. brick.....		
Van Buren (Ext.).....	At Quincy.....	.....	41	12-in. pipe.....	33 56	J. Connelly & Son.
Wabash.....	Kinsman.....	Trenton.....	737	20-in. Cir. brick.....	2,107 70	J. Connelly & Son.
		{ Bower.....	54	No. 5 brick.....	407 68	Campbell Brothers.
		Renovo.....	51	No. 3 brick.....	288 72	Campbell Brothers.
Willson ave.....	Branches at.....	Francis.....	51	No. 11 brick.....	850 00	Clements Bros.Con.Co
		Sweeney.....	50	No. 3 brick.....	182 00	Clements Bros.Con.Co
		{ Lufkin.....	54	No. 3 brick.....	214 78	Frank Hlavin.
Willson ave.....	Julia.....	150 ft. southerly.....	193	15-in. pipe.....	215 80	C. F. Keunts.
			868	No. 9 brick.....	20,939 63	J. Connelly & Son.
			625	No. 5 brick.....		
			863	No. 4 brick.....		
			7	8-ft. Cir. brick.....		
* Willson ave.....	Kingsbury.....	Track.....	252	5-ft. Cir. iron pipe..		

TABLE No. 3.—Concluded.

Name of Street.	From Street.	To Street.	Length in Feet.	Kind of Sewer.	Cost.	Contractor.
† Walworth	Gordon	646 ft. E. of Junction.	391 253 330	9½-ft. Cir. brick.... 9½-ft. Cir. brick.... 10½-ft. Cir. brick....	\$ 47,494 78	Wilson & Strack.
† Walworth	646 ft. E. of Junction.....	100 ft. W. of Mill.....	646	11½-ft. Cir. brick....	26,444 03	Bramley & Gribben.
* Walworth	Seranton ave.....	Westerly.....	436 350	13½-ft. Cir. brick.... Wooden flume.....	1,005 24	C. H. Strong & Son.
Total.....	.....	.....	.....	.....	\$402,454 97	

55,457 lineal feet, -- 10.5 miles. 8.21 miles brick sewer. 2.19 miles of pipe sewer. .10 miles iron pipe sewer.

* Equals amount expended in 1897 to complete.

† Equals amount expended in 1897, not complete.

Name.	Kind of Improvement.	Cost.	Contractor.
Center street bridge	Land	\$ 17,000 00	Akron Sewer Pipe Co.
Central viaduct	Protection piles.	64 80	The L. P. & J. A. Smith Co.
†Central viaduct.	Planking and sheeting.	3,141 00	Cleveland Saw Mill & Lumber Co.
Central viaduct	Clips for nailing strips.	2 9 54	Clough & Witt.
Central viaduct.	Wheel guards	392 81	Cleveland Saw Mill & Lumber Co.
Columbus street bridge	Electric lamps.	5 28	Cleveland Electric Mfg. Co.
*Erie street extension.	Protection piles No. 1	916 00	C. J. Engel.
*Erie street extension.	Protection piles No. 2	3,276 10	C. J. Engel.
*Erie street extension	Pier No. 3	1,032 10	C. J. Engel.
Erie street extension	Tar and creosote.	6 00	Barrett Mfg. Co
†Erie street extension	Pier extension.	17,531 96	The L. P. & J. A. Smith Co.
Forest street sewer	Repairs near Tuslin street.	492 92	Clements Bros. Construction Co.
Kingsbury viaduct.	Planking and sheeting (east)	1,391 25	J. W. Bannago.
Kingsbury viaduct.	Planking and sheeting (west).	1,287 37	The Kirk-Christy Co.
Kingsbury viaduct	Planking and sheeting (center)	1,169 29	The Kirk-Christy Co.
Martin-Praha bridge	Land	3,726 00	Various owners.

TABLE No. 4.—Continued.

Name.	Kind of Improvement.	Cost.	Contractor.
Middle Seneca street bridge.....	Repairs to iron truss.....	\$ 170 00	Variety Iron Works Co.
River widening (viaduct to Old River Bed)...	Dock construction.....	15,000 75	The L. P. & J. A. Smith Co.
River widening (viaduct to Old River Bed)...	Land	348,689 91	Various owners.
River widening (viaduct to Old River Bed)...	Dredging and removing old docks.....	12,867 12	The Cleveland Dredge Co.
River widening (viaduct to Old River Bed)...	Fender piles.....	46 08	The L. P. & J. A. Smith Co.
*Seneca street extension.....	Howe truss bridge and inclined roadway.....	3,927 71	G. A. Cook.
Upper Seneca street bridge.....	Protection piles.....	157 68	C. H. Strong & Son.
Various bridges.....	Stoves, pipes, elbows, etc.....	42 55	Cleveland Co-Operative Stove Co.
Willett street bridge.....	Land and easements.....	10,415 85	Various owners.
*Willow street bridge.....	Substructure	515 15	The L. P. & J. A. Smith Co.
Willow street bridge.....	Superstructure	31,642 34	The King Bridge Co.
Willow street bridge.....	Bridgetender's house.....	249 00	James Rochford.
Willow street bridge.....	Erecting poles and feed wires	265 25	The Forest City Construction Co.
Willow street bridge.....	Feed wire.....	237 69	The John A. Roebling Sons Co.
Willow street bridge.....	Inspection (mill and shop).....	179 44	The Osborn Company.
Willow street bridge.....	Inspection (field)	259 00	C. B. Lewis.
Willow street bridge.....	Electric lamps, batteries, etc.....	48 89	Various.
Willow street bridge.....	Signal frame and red ball.....	21 00	Clough & Wilt.

Name.	Kind of Improvement.	Cost.	Contractor.
Willow street bridge.....	Bridgetender's signals.....	\$ 3 00	The F. W. Roberts Co.
Willow street bridge.....	Bridge bell	45 00	The Wm. Bingham Co.
Willow street bridge.....	Chairs	7 75	The Goodhart Co.
Willow street bridge	Temporary use of bridge during construction.	2,836 10	The C. T. & V. R. R. Co.
Willow street bridge.....	Land	16,000 00	The L. S. & M. S. R. R. Co.
†Willson avenue bridge.....	Embankment.....	5,700 00	Brannan & DeCelle.
Willson avenue bridge.....	Substructure	5,248 86	M. F. Bramley.
†Willson avenue bridge.....	Superstructure.....	4,791 60	The King Bridge Co.
Willson avenue bridge.....	Easements and land damages.....	5,300 00	Various owners.
River widening (Seneca to Mahoning).....	Land and dredging.....	11,800 00	The Doster Estate.
Cuyahoga river	Dredging.....	22,346 43	W. E. Rooney
Streets and public grounds.....	Lighting.....	238,000 64	Various.
Total .....	.....	\$ 788,905 21	

* Amount expended in 1897, to complete.

† Amount expended in 1897, not complete.

TABLE No. 5.
IMPROVEMENTS UNDER CONTRACT AND IN PROGRESS.

Name of Street.	From Street.	To Street.	Kind of Improvement.	Approximate Cost to Complete.	Contractor.
Abbey Street Viaduct.....	.....	.....	Planking and sheeting..	\$ 2,850 00	The Kirk-Christy Co.
Central Viaduct.....	West half of roadway..	.....	Planking and sheeting..	350 00	Cleveland Saw Mill & Lumber Co.
Central Viaduct.....	East half of roadway..	.....	Planking and sheeting..	3,530 00	Cleveland Saw Mill & Lumber Co.
Case.....	Kingsbury Run.....	Woodland.....	Sewer.....	26,000 00	William Eggers.
Detroit.....	Seoville Lane.....	Lake Avenue.....	Sewer.....	5,000 00	William Lehman.
Eliot.....	Lake Avenue.....	Detroit.....	Sewer.....	12,865 00	Campbell Bros.
Erie Street Extension ..	.....	.....	Protection piles	93 33	C. J. Engel.
Gordon.....	Breakwater	Bridge.....	Sewer.....	14,000 00	Bernard McCarthy.
Kennedy.....	Oakdale	Bolton.....	Grade and curb.....	865 00	J. N. Kalbrunner.
Oliver.....	Superior.....	Euclid.....	Sewer.....	3,000 00	J. Connolly & Son.
Pearl Street Viaduct...	East half of roadway..	.....	Crescoted plank & blocks	1,400 00	The Michigan Pipe Co.
Russell.....	Superior.....	Wade Park.....	Sewer.....	5,000 00	C. F. Keuntz.
Sidewalks.....	(Delinquent).....	.....	Sewed flagging.....	883 78	M. P. Platten.
Union.....	Broadway	Woodland Hills	Sewer.....	3,000 00	Campbell Bros.
Walworth.....	Section 1.....	.....	Sewer.....	81,500 00	Wilson & Strack.
Walworth.....	Section 2.....	.....	Sewer.....	205,500 00	Bramley & Gribben.

Name of Street.	From Street.	To Street.	Kind of Improvement.	Approximate Cost to Complete.	Contractor.
Walworth	Section 3 .....	.....	Sewer	\$152,000 00	Bramley & Gribben.
Willson Avenue Bridge..	.....	.....	Embankment	4,300 00	Brannon & DeCalle.
Willson Avenue Bridge..	.....	.....	Superstructure	2,700 00	The King Bridge Co.
Willson Avenue Bridge..	(North approach) .....	.....	Medina block paving...	3,145 00	Brennan & Buettner.
Willson	Bower.	Broadway	Medina block paving...	17,000 00	M. F. Bramley.
Willow Street Bridge....	.....	.....	Gates.....	225 00	The King Bridge Co.
			Total.....	\$378,217 11	

TABLE NO. 6.

PROSPECTIVE STREET IMPROVEMENTS OTHER THAN SEWERS FOR 1898; THE FIRST
INSTALLMENT OF THE TAXES FOR THE SAME WAS DUE AND PAYABLE
IN DECEMBER, 1897.

Name of Street.	From Street.	To Street.	Kind of Improvement.	Length in Feet.	Approximate Cost.
Alabama.....	St. Clair.....	L. S. & M. S. Ry.....	Medina Block Paving.....	1247	\$ 21,965 00
Amesbury	Hough.....	Southerly.....	Brick Paving.....	387	2,282 00
Atlas Alley.....	Ohio.....	Race.....	Old Stone Paving.....	186	767 00
Avon Alley.....	Huron	Bolivar.....	Old Stone Paving.....	400	1,197 00
Bank.....	Superior.....	235 feet north of Lake ..	Asphalt Repaving.....	1729	28,738 00
Bell.....	Cedar.....	South End.....	Brick Paving.....	1670	8,344 00
Beta Alley.....	Bond	Erie.....	Old Stone Paving.....	495	2,753 00
Bolton.....	Quincy.....	Woodland.....	Brick Paving.....	1817	12,132 00
Brenton	Cedar	Central.....	Brick Paving.....	1475	6,909 00
*Buckley	Harbor.....	Burton.....	Brick Paving.....	779	4,985 00
†Canal.....	Commercial.....	Factory ..	Grade ..	1457	3,802 00
Cemetery	Quincy.....	Woodland	Brick Paving.....	1872	10,910 00
Clark	Jennings.....	Merchants.....	Brick Paving.....	579	4,403 00

TABLE No. 6.—Continued.

Name of Street.	From Street.	To Street.	Kind of Improvement.	Length in Feet.	Approximate Cost.
Cobleigh.....	Willson.....	East End.....	Brick Paving.....	354	\$ 1,274 00
Court Place.....	St. Clair.....	Broom Alley.....	Asphalt Repaving....	182	938 00
Courtland	Detroit	Franklin.....	Grade and Curb.....	718	656 00
Crosby.	Wooley	Canton	Grade.....	583	775 00
Cross Alley.....	Woodland.....	Broadway	Old Stone Paving	320	1,721 00
Davis	Lorain.....	Willard.....	Brick Paving.....	747	4,469 00
Dunham.....	Hough.....	Wade Park.....	Brick Paving	2651	10,258 00
East Clark.....	Petrie	Westerly.....	Grade.....	1670	1,033 00
Ensign.....	Willson.....	Kinsman	Brick Paving.....	820	3,348 00
Eureka Lane	Gehring	Columbus.....	Old Stone Paving.....	333	1,646 00
Fairfield.....	Jennings.....	Pelton	Brick Paving	1018	5,439 00
Fir.....	Waverly	Browning.....	Grade and Curb	1764	2,008 00
Fairlawn	Archwood.....	Denison	Grade and Curb	629	725 00
Fountain	Seneca	Ontario.....	Old Stone Paving	462	1,805 00
Fountain	Clark	Train	Grade.....	772	2,493 00
Giadstone.....	Sawtell	West End	Brick Paving	848	3,047 00
Gould Alley	Pearl	Hicks.....	Old Stone Paving.....	331	1,576 00

DEPARTMENT OF PUBLIC WORKS.

TABLE No. 6.—Continued.

Name of Street.	From Street.	To Street.	Kind of Improvement.	Length in Feet.	Approximate Cost.
†Hamilton.....	Wood.....	Erie.....	Asphalt Paving.....	924	\$ 14,060 00
Harbor.....	Lorain.....	Ravine.....	Brick Paving.....	2022	13,365 00
Herbert.....	Francis.....	Southerly.....	Grade.....	1060	378 00
†Hickox.....	Euclid.....	Prospect.....	Asphalt Paving.....	461	3,190 00
Holmden.....	Jennings.....	Pearl.....	Brick Paving.....	2352	12,506 00
Jersey.....	Fulton.....	Monroe.....	Brick Paving.....	2221	13,940 00
Judson.....	Quincy.....	Stanton.....	Grade and Curb.....	597	678 00
Kenilworth.....	Jennings.....	Pelton.....	Brick Paving.....	958	8,535 00
Kent.....	St. Clair.....	Lake.....	Asphalt Paving.....	617	5,630 00
Kindsvater.....	Willson.....	Lyon.....	Grade and Curb....	756	1,178 00
Kimmel.....	Beding.....	Hunting.....	Grade.....	1670	5,204 00
Kirtland.....	Superior.....	St. Clair.....	Grade and Curb.....	1127	1,110 00
Lane.....	Commercial.....	Canal.....	Old Stone Paving.....	333	2,267 00
Lincoln.....	Quincy.....	Woodland.....	Brick Paving.....	1829	11,064 00
Linton.....	Ackley.....	Westerly.....	Grade.....	844	627 00
Litrary.....	Merchants.....	Herschel.....	Brick Paving.....	1846	13,088 00
Main.....	Water.....	East River.....	Com. Med. Repaving.....	878	6,804 00

TABLE No. 6.—Continued.

Name of Street.	From Street.	To Street.	Kind of Improvement.	Length in Feet.	Approximate Cost.
McLean	Lorain	Monroe.....	Brick Paving	1130	\$ 7,058 00
Minerva	Hough.....	North End.....	Brick Paving	656	3,180 00
Monroe	Pearl.....	Willett.....	Brick Paving	2436	17,392 00
*Murray Hill	Mayfield.....	Adelbert.....	Asphalt Paving.....	3013	30,392 00
Oliver	Euclid	Superior.....	Brick Paving	2444	14,036 00
Ontario.....	Central.....	Factory	Asphalt Repaving	365	7,228 00
†Ontario,	Lake.....	Summit.....	Asphalt Repaving	374	4,810 00
Penn.....	Bridge.....	Monroe.....	Brick Paving	1807	11,527 00
Plymouth.....	Cedar.....	Central.....	Brick Paving	1449	6,458 00
Putnam.	Central	Soovill.....	Brick Paving	1223	6,426 00
Race	Ontario.....	Westerly	Brick Paving	398	1,770 00
Republic.....	Euclid	Lamont.....	Brick Paving	1778	10,057 00
Ridge.....	Lorain.....	Denison	Asphalt Repaving	3869	57,588 00
Scranton	Clark.....	Pearl	Asphalt Paving.....	4873	66,246 00
Scranton.....	Seneca.....	Cliff	Com. Medina Paving.....	3015	31,633 00
Seneca.....	Superior.....	St. Clair.....	Asphalt Repaving.....	616	12,548 00
Sherwood.....	Ambler	McCurdy	Grade and Gutters Paved.....	453	949 00

TABLE NO. 6.—Continued.

Name of Street.	From Street.	To Street.	Kind of Improvement.	Length in Feet.	Approximate Cost.
Streator.....	Cedar.....	Quebec.....	Brick Paving.....	1774	\$ 11,422 00
Wade.....	Pearl.....	Rhodes.....	Grade and Curb.....	2200	2,660 00
Wade Park.....	Norwood.....	Park Boulevard.....	Brick Paving.....	7967	50,000 00
Walton.....	Pearl.....	Pollock.....	Grade and Curb.....	2974	4,142 00
Warner Road.....	Broadway.....	Grand Division.....	Grade and Culvert.....	4457	42,583 00
West Clinton.....	Waterson.....	Easterly.....	Grade and Curb.....	758	690 00
West Clinton.....	Waverly.....	Gordon.....	Brick Paving.....	1044	5,807 00
Wilson Avenue Bridge....	South Approach.....	.....	Medina Block Paving.....	234	3,500 00
Wood.....	St. Clair....	Summit.....	Brick Paving.....	973	9,607 00
Woodbridge.....	Pearl.....	Rhodes.....	Brick Paving.....	2853	17,674 00
†Woodland.....	Eagle.....	Central.....	Asphalt Repaving.....	638	10,000 00
Zoeter.....	Dunham.....	Giddings.....	Grade and Curb.....	1288	1,944 00

Grading.....	12,976 feet — 2.5 miles.....	\$ 57,944
Curbing.....	12,811 feet — 2.4 miles.....	15,761
Paving and Repaving.....	80,072 feet — 15.1 miles.....	641,723
Totals.....	105,829 feet — 20 miles.....	\$ 715,328

* Indicates under contract.
† Indicates first installment due previous to December, 1897.

TABLE NO. 6.—Concluded.

ENGINEER'S REPORT.

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Name.	From	To	Kind of Improvement.	Approximate Cost.
Center Street Bridge.....	Construction.....	\$120,000 00
Center Street Bridge.....	.....	.....	Additional land.....	23,000 00
Central Viaduct.....	.....	.....	Reflooring.....	9,000 00
Erie Street Extension.....	.....	.....	Pier extension.....	30,000 00
Jefferson Street Bridge.....	.....	.....	New west abutment.....	12,000 00
Martin-Praha Street Bridge.....	.....	.....	Construction..	25,000 00
Martin-Praha Street Bridge.....	.....	.....	Land and slope rights.....	8,275 00
Middle Seneca Street Bridge.....	.....	.....	New turntable and motive power.....	10,500 00
Pearl Street Viaduct.....	.....	.....	Reflooring.....	1,600 00
River Widening.....	Main Street....	Old River Bed.....	Docks and dredging.....	25,000 00
River Widening.....	Main Street.....	Old River Bed.....	Land.....	65,150 00
River Widening.....	Superior Street Viaduct.....	40 feet south of Elm Street...	Docks and dredging.....	30,000 00
River Widening.....	Superior Street Viaduct.....	40 feet south of Elm Street...	Reinforcing Viaduct pier.....	30,000 00
River Widening.....	Superior Street Viaduct.....	40 feet south of Elm Street...	Land.....	51,717 00
River Widening.....	At Main Street Bridge.....	.....	Reinforcing pier.....	16,000 00
Superior Street Viaduct.....	.....	.....	Reflooring iron portion.....	5,000 00
Superior Street Viaduct.....	.....	.....	Relaying stone pavement.....	30,000 00
Willott Street Viaduct.....	.....	.....	Viaduct.....	105,000 00
			Total.....	\$597,242 00

TABLE NO. 7.
SEWERS.—PROSPECTIVE FOR 1898.

Name of Street.	From Street.	To Street.	Length in Feet.	Approximate Cost.
Boulevard	Desmond	Detroit	700	\$ 18,645 00
Brinsmade	Ridge	Bigelow	1,030	4,481 00
Brandon	Mayfield	Paul	450	1,999 00
Brenton	Cedar	Central	1,350	4,811 00
Baden court	Baden	Easterly end	270	408 00
Baldwin	Doan Brook	Giddings Brook	3,000	50,000 00
Bergen	Train	Clark	800	10,050 00
Broadway	Warner road	Miles Park	600	3,000 00
Clark	Isabella	Gilbert	1,530	20,213 00
Clark	Walworth	Lenox	650	9,567 00
Camden	Lenox	Bigelow	2,450	30,779 00
China	Siam	Chatham	350	598 00
Chandler	1080 ft. S. of St. Clair	Donald	1,160	4,633 00
Carlisle	Burton	Selden	400	1,310 00
Cornelia	Hodge	Woolsey	830	2,936 00
Conrad	Higgins	Ridge	940	3,550 00

TABLE No. 7.—Continued.

ENGINEER'S REPORT.				553
Name of Street.	From Street.	To Street.	Length in Feet.	Approximate Cost.
Congress	Quincy.....	North of Woodland.....	1,170	\$ 4,099 00
Chatham	Pearl.....	Mechanic.....	2,350	25,000 00
Douse.....	S. of Broadway.....	North end.....	480	1,751 00
Devine.....	Bailey.....	N. Y., C. & St. L. R. R.....	430	1,389 00
Desmond	Lake avenue.....	Boulevard.....	2,200	86,942 00
Detroit	Scoville lane.....	Lake avenue.....	900	6,565 00
Detroit	Eliot.....	Landon.....	1,760	10,497 00
Detroit	Eliot.....	Lowell.....	250	1,396 00
Detroit	Edgewater	Park View.....	100	1,500 00
Doan	Lake Erie	City limits.....	10,400	365,000 00
Eglindale.....	Scranton.....	East View.....	1,000	2,933 00
Erie	Superior	Woodland	3,670	73,807 00
Edgewater	Lake avenue.....	Detroit.....	2,775	25,000 00
Evins court.....	Woodland	South end.....	420	450 00
Fountain	Train	Clark	810	9,637 00
Finney.....	Valley.....	Hooker	750	3,779 00
Fir.....	Gordon	Waverly.....	860	2,940 00
Fen	Quincy.....	C. & P. R. R.....	340	1,100 00

DEPARTMENT OF PUBLIC WORKS.

TABLE No. 7.—Continued.

Name of Street.	From Street.	To Street.	Length in Feet.	Approximate Cost.
Francis	Willson	Tod	1,690	\$ 16,740 00
Franklin	Waterson	Pease court	1,280	7,171 00
Fair court	Dunham	East end of court	490	654 00
Foljambe	Alley	Outhwaite	350	546 00
Fairview	Murray Hill	Alley	720	1,585 00
Garden place	Central	North end	350	590 00
Groton	Union	Ætna	1,390	5,437 00
Grace	Ridge	Geib	1,360	5,364 00
Hope	Higgins	Ridge	1,040	3,927 00
Hurlbut	Payne	Perkins	1,030	5,202 00
Hunter	Broadway	North end	950	2,953 00
Hill	Commercial	Harrison	300	2,035 00
Hillman	Broadway	Tod	1,000	3,490 00
Higgins	Clark	Lorain	1,490	7,872 00
Interceptor in Lake street	Muirson	Water	4,100	165,000 00
Interceptor in Boulevard	Adams avenue	Doan street	12,000	643,500 00
Interceptor, Term'l Tunnel and Works	.....	.....	.....	93,500 00
Judd	Perry	Harmon	270	929 00

TABLE NO. 7.—Continued.

Name of Street.	From Street.	To Street.	Length in Feet.	Approximate Cost.
Jefferson	Tremont.....	Pelton	460	\$ 1,167 00
Jefferson	Tremont.....	Professor.....	340	522 00
Junction.....	Walworth.....	Train.....	600	9,386 00
Kornan	Woolsey	Ansel.....	1,190	4,034 00
L. S. Overflow	Gordon	Waverly.....	2,250	56,000 00
Lake avenue.....	Overflow at	L. S. & M. S. Ry.....	1,050	36,750 00
Lenox.....	Clark	South end.....	870	9,731 00
Libbie	Clark	Brinsmade.....	780	3,116 00
Lake avenue.....	Highland.....	L. S. & M. S. Ry.....	6,780	97,545 00
Lake avenue.....	Overflow at.....	Edgewater street.....	1,200	38,000 00
Muirson.....	Lake Erie	Walnut.....	2,030	49,997 00
Miles Park avenue	Broadway.....	Sawyer	400	6,668 00
Miles Park	Sawyer	Woodland Hills	1,150	8,920 00
Malcolm.....	Detroit	West Madison.....	1,260	12,987 00
Newark.....	Burton	Selden.....	500	1,634 00
Orange.....	Forest	Humboldt	740	3,133 00
Oakdale.....	Quincy.....	Woodland	1,700	12,887 00
Ottawa	Marcelline.....	Jones.....	1,600	7,601 00

DEPARTMENT OF PUBLIC WORKS.

TABLE No 7.—Continued.

Name of Street.	From Street.	To Street.	Length in Feet.	Approximate Cost.
Petrie.....	Morgan Run.....	Fleet.....	2,400	\$ 30,000 00
Petrie.....	Morgan Run.....	Vivian.....	2,200	18,000 00
Pratt	Woodland Hills.....	East end of street.....	1,300	18,444 00
Pleasant.....	Clark	1,150 feet south.....	1,180	5,834 00
Purdy	Walworth Run.....	Lorain.....	1,400	6,366 00
Russell	Superior.....	Wade Park.....	1,060	4,858 00
Roberts.....	Barton.....	Selden.....	400	1,288 00
Right of way	Gordon	Alger.....	370	15,000 00
Svoboda	Forest.....	East end of street.....	760	3,331 00
Shaw.....	Ridge.....	East end of street.....	480	1,733 00
Stoneman.	Kinsman.....	1,000 feet southerly.....	1,040	4,551 00
Simon	Woolsey	Ansel.....	910	3,314 00
Superior.....	Muirson	Erie	700	9,426 00
Talbot.....	Amesbury	Ansel.....	560	1,902 00
Train	Burton.....	Junction.....	2,070	28,759 00
Train.....	Junction.....	Swiss	730	7,517 00
Thurman	College	Literary	400	767 00
Tod.....	Francis	Union	5,450	53,455 00

TABLE No. 7.—Continued.

Name of Street.	From Street.	To Street.	Length in Feet.	Approximate Cost.
Tennessee.....	L. S. & M. S. Ry.....	Detroit.....	1,300	\$ 5,927 00
Tod.....	Kenyon	Fleet	1,570	27,007 00
Tod.....	Fleet	Fullerton.	350	2,963 00
Titus.....	Seranton.....	East View.....	680	2,446 00
Turney	Warner road.....	Forca.....	1,000	12,000 00
Valley	Harvard	Finney	780	4,320 00
Warner road.....	Turney	Broadway	800	5,000 00
*Walworth.....	Section 3.....	.....	3,000	182,000 00
Walworth.....	Section 4.....	.....	2,000	184,000 00
Wellington	Detroit.....	West Madison.....	1,000	20,000 00
Woodland	Eagle.....	Cross	1,630	12,075 00
Woodland	Erie	Maple	3,980	34,369 00
Woodland	Case	Maple	2,390	13,387 00
Woodland	Case	Willson.....	2,130	25,666 00
Walnut.....	Mulrson	Erie	570	2,958 00
Watterson	Detroit	West Madison.....	2,000	16,481 00
West Madison.....	Watterson.....	Gordon.....	1,400	8,500 00
West Madison.....	Watterson.....	Pennington	450	3,400 00

TABLE No. 7.—Concluded.

Name of Street.	From Street.	To Street.	Length in Feet.	Approximate Cost.
West Madison.....	Malcolm.....	Pennington.....	1,550	\$ 16,400 00
West Madison.....	Malcolm.....	Landon.....	1,600	24,670 00
West Madison.....	Wellington . . .	Landon.....	400	2,230 00
West Madison.....	Wellington	L. S. & M. S. Ry.....	3,550	58,370 00
Totals .....	.....	.....	159,405	\$2,995,112 00

TABLE NO. 8.

STREET IMPROVEMENTS OTHER THAN SEWERS,

For Which Approximate Estimates Have Been Made, Resolutions and Ordinances Prepared in
Order to Assess a Tax.

Name of Street.	From Street.	To Street.	Proposed Improvement.	Approximate Cost.
Ansel	Republic.....	Hough Avenue Ext.....	Grade and curb.....	\$ 1,005 55
Archwood.....	Melbourne.....	Rhodes	Brick paving.....	8,584 57
Beechwood	Cedar.....	Central	Brick paving.....	10,779 08
Bolton.....	Woodland	South Woodland.....	Brick paving.....	5,008 11
Bond Alley.....	Bond.....	Erie	Brick paving.	1,893 63
Brenton.....	Cedar.....	Central.....	Brick paving.....	6,910 18
Bridge.....	Pearl.....	Hurd	Brick paving.....	5,436 17
Buckley	Harbor.....	Burton	Brick paving.....	4,964 84
Burton.....	Clark.....	Storer.....	Common Medina paving.....	18,568 41
Burton.....	Clark.....	Rhodes	Brick paving.....	26,531 65
Butler.....	Herbert.	Westerly.....	Grade and curb.....	565 11
Carroll.....	Fulton.....	1,240 feet easterly.....	Brick paving.....	7,803 13
Carabelli.....	Mayfield.....	1,208 feet northerly	Grade and curb.....	1,306 13
Carter	Scranton.....	Big Four R. R.....	Common Medina paving.....	10,166 49

TABLE No. 8.—Continued.

Name of Street.	From Street.	To Street.	Proposed Improvement.	Approximate Cost.
Chapel.....	Seovill.....	Woodland	Brick paving.....	\$ 4,767 70
Church	Pearl.....	Duane.....	Brick paving.....	8,679 16
Columbus.....	Center..	The bridge.....	Medina block paving.....	45,397 68
Columbus Lane.....	Brownell	Sassafras Alley.....	Brick paving.....	3,257 42
Court Place.....	Broom Alley.....	St. Clair	Asphalt paving.....	937 90
Courtland.....	Detroit.....	Lorain.....	Brick paving.....	17,396 25
Davis.....	Lorain.....	Willard.....	Brick paving.....	4,469 59
Duane.....	Franklin	Woodbine	Brick paving.....	5,202 04
East Madison.....	Woodland	Kinsman.....	Brick paving.....	54,141 68
Fairlawn	Denison	Archwood.....	Grade and curb....	725 34
Franklin Court.....	Franklin.....	South End.....	Asphalt paving.....	6,008 54
Franklin Place	Franklin.....	Fulton.....	Brick paving.....	1,436 34
First.....	Central.....	Woodland	Brick paving.....	17,049 04
Florence.....	Quincy.....	Woodland	Brick paving.....	9,974 96
Fulton.....	Lorain.....	Franklin Place.....	Medina block paving.....	24,083 24
Giddings.....	Lexington	Superior.....	Asphalt paving.....	30,859 86
Gordon	Detroit....	Franklin.....	Brick paving.....	6,012 70
Gordon	Franklin.....	Bridge.....	Brick paving.....	3,665 46

TABLE No. 8.—Continued.

ENGINEER'S REPORT.				561
Name of Street.	From Street.	To Street.	Proposed Improvement.	Approximate Cost.
Gordon	West Madison	Lorain	Brick paving.....	\$ 7,626 76
Gordon	Bridge.....	West Madison.....	Brick paving.....	7,999 87
Gordon	Lorain.....	Clark.....	Brick paving.....	13,383 07
Grand Army Court	Pearl.....	East End.....	Grade.....	180 26
Hamm.....	Broadway.	Petrie	Common Medina paving.....	10,179 65
Harbor	Franklin.....	Lorain... ..	Brick paving.....	14,136 98
Haven.....	Superior.....	City limits.....	Grade and curb.....	535 70
Herschel.....	Soothern.....	South Street.....	Grade and pave gutter.....	4,711 93
Hickory Lane.....	Muirson	268 feet westerly.....	Brick paving.....	1,091 16
High.....	Sheriff.....	Miami	Brick paving.....	1,389 79
Holmden	Jennings.....	Pearl.....	Brick paving....	12,505 83
Holton.....	East Madison.....	C. & P. R. R.....	Grade and curb.....	1,909 07
Hough Place	East End.....	West End.....	Brick paving.....	2,732 10
Humboldt	Woodland	Orange.....	Medina block paving.....	2,839 68
Jay	Pearl.....	Jersey	Brick paving.....	6,049 36
Jefferson.....	Pelton.....	Herschel.....	Brick paving.....	16,417 52
Jefferson.....	Herschel.....	Broadway	Common Medina paving.....	23,315 45
Jessie.....	Cedar.....	Central.....	Brick paving.....	7,987 42

TABLE No. 8.—Continued.

Name of Street.	From Street.	To Street.	Proposed Improvement.	Approximate Cost.
John.....	Woodbine	Harbor.....	Brick paving.....	\$ 5,609 99
Judd.....	Brownell.....	Harmon	Brick paving.....	2,612 94
Kenilworth.....	Jennings.....	Pelton.....	Brick paving.....	8,585 83
Kentucky.....	Franklin.....	Woodbine	Brick paving.....	4,447 55
Lakeview.....	Superior.....	N. Y., C. & St. L. R. R.....	Grade and curb.....	4,161 50
Larnder.....	Bazetta.....	Wellington.....	Grade and curb.....	826 69
Linton.....	Ackley.....	Northerly.....	Grade.....	627 11
Lodge.....	Central.....	Quincy.....	Brick.....	5,154 29
Lorain.....	Pearl.....	Waverly.....	Asphalt paving.....	82,470 62
Lorain.....	Pearl.....	McLean.....	Asphalt paving.....	2,815 94
Main	Water	East River.....	Common Medina paving.....	7,118 54
Mandrake	Water	350 feet westerly.....	Grade and curb.....	772 59
Meckes Alley.....	Bridge.....	Fulton	Brick paving.....	735 34
Minton	Lorain	Denison.....	Brick paving.....	10,219 18
Monumental Court.....	Superior.....	Rockwell.....	Asphalt paving.....	2,511 02
Munich.....	St. Clair	North end.....	Grade and curb.....	1,082 24
McConnell.....	Covington	Broadway.....	Grade and gutter paved	1,265 70
Oliver.....	Kuclid.....	Superior.....	Brick paving.....	14,036 08

TABLE No. 8.—Continued.

ENGINEER'S REPORT.					563
Name of Street.	From Street.	To Street.	Proposed Improvement.	Approximate Cost.	
Orange.....	Humboldt.....	Case.....	Brick paving.....	\$ 10,567 36	
Outhwaite.....	Slater... ..	Cemetery.....	Grade and curb.....	1,378 81	
Parkman Lane	Erie	Brownell.....	Brick paving....	3,340 37	
Pearl	Franklin.....	Walworth Run.....	Medina block and asphalt.....	51,906 77	
Pearl	Franklin.....	Walworth Run.....	Medina block paving.....	49,941 28	
Pearl	Franklin.....	Walworth Run.....	Asphalt paving.....	48,782 00	
Plymouth.....	Cedar.....	Central.....	Brick paving.....	6,457 63	
Pratt	Ruggles.....	Woodland Hills.....	Grade and curb.....	1,266 93	
Prim.....	Clark.....	Storer.....	Grade.....	4,885 92	
Prospect.....	Erie	Brownell	Block paving—Widening.....	6,817 00	
Quebec.....	Oakdale	Doan.....	Grade and curb.....	2,622 12	
Quincy.....	Bolton.....	Woodland Hills.....	Medina block paving.....	45,837 35	
Randall.....	Bridge.....	Harbor	Brick paving.....	7,634 05	
Richland	Central.....	Quincy	Brick paving.....	5,008 65	
Rose.....	Jay.....	Bridge.....	Brick paving.....	1,585 23	
Sago.....	Lorain.....	Denison	Brick paving.....	8,948 45	
Sayles	Cedar.....	Quebec.....	Brick paving....	8,872 20	
Scott.. ..	Detroit.....	Bridge.....	Brick paving.....	8,682 63	

TABLE No. 8.—Continued.

Name of Street.	From Street.	To Street.	Proposed Improvement.	Approximate Cost.
Seranton (12-foot strip)	Seneca.....	Cliff.....	Common Medina paving.....	\$ 9,335 95
Second.....	Central.....	Quincy.....	Brick paving.....	4,826 68
Sherwood	Ambler.....	McCurdy..	Grade.....	918 72
Slater.....	Quincy.....	Woodland....	Brick paving.....	10,440 43
Slater.....	Woodland	816 feet southerly.....	Brick paving.....	4,628 73
Sophia.....	Woodland Hills	Wilhelm.....	Grade.....	1,339 34
South Willson.....	Fleet	Mound	Grade.....	571 65
State.....	Franklin.....	Detroit.....	Brick paving... ..	4,653 30
St. Clair.....	Water	Big Four R. B.....	Common Medina paving.....	4,430 30
Steinway	South Woodland.....	Woodland Hills.....	Common Medina paving.....	11,704 59
Stoneman.....	Kinsman	1,000 feet southerly.....	Grade.....	506 10
Streator	Cedar.....	Quebec.....	Brick paving.....	11,423 18
Superior.....	Spring.....	Cuyahoga River.....	Common Medina paving.....	5,460 28
Superior.....	Old city limits.....	Brenton.....	Grade.....	2,863 54
Superior Street Viaduct.....	West end of draw.....	Pearl	Asphalt paving.....	23,000 00
Taylor.....	Detroit	Lorain.....	Brick paving.....	15,698 42
Tod.....	Broadway.....	Heisley	Embankment.....	49,682 00
Trumbull Alley.....	Forest	Trumbull.....	Brick paving.....	3,712 91

TABLE No. 8.—Concluded.

ENGINEER'S REPORT.			
Name of Street.	From Street.	To Street.	Proposed Improvement.
Tustin	East End.....	132 feet westerly.....	Grade and gutter paved
Vanek.....	Kinsman.....	Higbee.....	Grade and curb.....
Vanek.....	Kinsman.....	Fort	Grade, curb and gutter paved.
Wendell.....	Broadway	North end.....	Brick paving.....
West Clinton	Watterson.....	758 feet easterly.....	Grade and curb.....
West Clinton	Waverly.....	Gordon	Brick paving.....
West Madison.....	Waverly.....	Gordon	Brick paving.....
Whitman.....	Woodbine	Harbor	Brick paving.....
Willson.....	St. Clair	Lake View.....	Medina block paving.....
Willson.....	Bower	Broadway.	Medina block paving.....
Willson Avenue Bridge.....	Easterly approach .....	.....	Medina block paving.....
Woodbine	Fulton.....	Harbor	Brick paving.....
Woodland Hills.....	Miles.....	Broadway.....	Grade and gutter paved.....
Yonkers.....	Lorain.....	Denison.....	Brick paving.....
Zoeter.....	Dunham.....	Giddings.....	Grade and curb.....
Total, 121 Streets .....	.....	.....	.....
			\$ 291 62
			2,385 08
			6,021 29
			3,047 94
			660 43
			5,807 94
			6,594 62
			10,034 70
			29,083 28
			57,978 62
			3,695 75
			11,203 77
			1,763 90
			9,671 20
			1,944 72
			\$1,239,214 44

TABLE NO. 9.
SURVEYS MADE IN 1897.

Name of Street.	From Street.	To Street.
Ackley.....	Broadway.....	Fleet.
Alum	Clark.....	Gilbert.
Anthony.....	Ridge,.....	W. L. O. L. 34.
Aberdeen.....	Hodge.....	Woolsey.
Alanson.....	Cedar	Quincy,
Ambleside.....	Fairmount.....	Third angle easterly.
Aubundale	Lake View Avenue.....	First angle easterly.
Allen	Central.....	Scovill.
Ackley.....	Broadway.....	363.5 ft. westerly.
Alley	Shelburne	Eastdale.
Alley	Erie	180 ft. westerly.
Alley	Hamilton.....	188 ft. southerly.
Ætna	Axtell	Macedonia.
Bank street (proposed extension).....	Superior.....	Canal.
Broadway School.....	Location.....	Cor. Tod street.
Blanche	Weckerling.....	Dolloff.

TABLE No. 9.—Continued.

Name of Street.	From Street.	To Street.
Bridge.....	Fulton.....	Rose.
Broadway	Ackley	Marcelline.
Broadway.....	Erie R. R.....	Independence.
Berry	Ridge.....	W. line Griswold allotment.
Brinsmade	Ridge.....	W. line H. & B. allotment.
Brownell	Scovill.....	Woodland.
Bond.....	St. Clair.....	Hamilton.
Brownell.....	Central.....	Scovill.
Bolton School	Bolton Avenue.....	Bell.
Brenton	Cedar.....	Central.
Brighton.....	Clark	Meyer.
Baldwin	Fairmount.....	Ingersoll road.
Beechwood	Cedar.....	Quincy.
Bolton.	Cedar.....	Quincy.
Bell.....	Cedar.....	Quincy.
Burt.....	Cedar.....	Quebec.
Brownell (extension).....	Woodland	Orange.
Brooklyn	Marvin	Woodbridge.

TABLE No. 9.—Continued.

Name of Street.	From Street.	To Street.
Church.....	Hanover.....	Duane.
Carroll.....	Fulton.....	York.
Chatham.....	Green.....	Pearl.
Canal.....	Seneca.....	Champlain.
Clark.....	Gordon.....	Alum.
Case.....	Kelley.....	Payne.
Case.....	Croton.....	Kingsbury Run.
Center Street Bridge.....	West approach.....	
Conrad.....	Ridge.....	Higgins.
Clark.....	Geib.....	Higgins.
Camden.....	Ridge.....	W. line O. L. 34.
Cherry.....	Perry.....	Cherry al.
Cherry al.....	Cherry.....	Odell al.
C. C. C. & St. L. R.....	250 ft. E. of Willett.....	250 ft. W. of Willett.
Central.....	Erie.....	Brownell.
Central.....	Giddings.....	Plymouth.
Central.....	Lincoln.....	E. line Newcomb allotment.
Central (extension).....	Alanson.....	Doan.

TABLE NO. 9.—Continued.

Name of Street.	From Street.	To Street.
Cedar.....	Giddings.....	Plymouth.
C. C. C. & St. L. R. R.....	300 ft. E. of Burton.....	300 ft. W. of Burton.
Cedar.....	Lincoln.....	Doan.
Cross.....	Woodland.....	Orange.
Crawford road.....	W. line Dodge allotment.....	Lake View ave.
Carabelli.....	Euclid.....	Mayfield.
Duane.....	Detroit.....	Franklin.
Dexter place.....	Clinton.....	Franklin Circle.
Douse.....	Broadway.....	Erie R. R.
Dearborn.....	Ridge.....	W. line O. L. 34.
Dunham.....	Hough.....	Superior.
Dunham.....	Hough..	Quinby.
Denison.....	First angle W. of Pearl.....	First angle W. of Rhodes.
Doan Brook.....	300 ft. N. of Ambleside.....	300 ft. S. of Ambleside.
Doan ..	Cedar.....	Quincy.
Doan ..	Lake Shore Boulevard.....	Brookwood.
Decatur al.....	Cross.....	Southerly end.
Erie.....	St. Clair.....	Hamilton.

TABLE No. 9.—Continued.

Name of Street.	From Street.	To Street.
Erie	Central.....	Scovill.
Eastdale.....	Quincy.....	Alley 600 ft. northerly.
Engine house lot.....	Kinsman street.....	Near E. Madison.
Franklin.....	Kentucky.....	Franklin Circle.
Fleet	South Willson.....	Ackley.
Fulton.....	Lorain.....	Franklin Circle.
Forest.....	Trumbull.....	N. L. O. L. 273.
Fisk.....	Ridge.	W. line M. H. & B. allotment.
Fair court.....	Dunham.....	E. line Sapp allotment.
Fairfield.....	Merchant.....	Pelton.
Five-Mile Creek.....	L. S. & M. S. R. R.....	200 ft. N. of L. S. Boulevard.
Fairbanks.....	Kinsman.....	Colfax.
Fairlawn	Denison	Archwood.
Fairfield.....	Pelton	Jennings.
Gilbert	Prim.....	Alum.
Grace.....	Ridge.....	Angle westerly.
Gustave court.....	Pearl.....	Westerly end.
Gustave court (extension).....	Brighton	(Gustave court.

TABLE NO. 9.—Continued.

Name of Street.	From Street.	To Street.
Giddings Brook.....	300 ft. N. of Baldwin.....	300 ft. S. of Baldwin.
Groton.....	Aetna.....	Union.
Huntington (ench.).....	Scoville lane.....	Tennessee.
Holton.....	Beckwith.....	Garretson.
Halsey.....	Cedar	Southerly line Sayles' allotment.
Higgins..	Lorain.....	Clark.
Hague.....	Ridge.....	Higgins.
Hope	Ridge.....	Higgins.
Hodge.....	Superior.....	Cornelia.
Halle	Ridge	W. line of H. & D. allotment.
Hamilton.....	Erie	Bond.
Hough.....	Dunham.....	First angle E. of Kirk.
Homewood	Salem.....	Morgan.
Halsey.....	Cedar.....	Quebec.
Hazel....	Lake View.....	McKinley.
Harmon	Scovill.....	Woodland.
Hitchcock.....	Clark.....	Barber.
Holmden	Pearl.....	Jennings.

TABLE No. 9.--Continued.

Name of Street.	From Street.	To Street.
Jennings.....	Valentine.....	S. L. O. L. 74.
Jersey.....	Monroe.....	Fulton.
Jennings.....	Starkweather.....	Fairfield.
Jefferson ..	Professor.....	Pelton.
Kenyon	Weimer.....	Ackley.
Kingsbury Run.....	Kinsman.....	Cuyahoga River.
Kinsman	Sharon	Fenton.
Kenilworth.....	Merchant	Pelton.
Kinsman	Sharon.....	Fairbanks.
Kenilworth.....	Pelton.....	Jennings.
Lime.....	Canal.....	C. C. C. & St. L. R. R.
Lorain.....	Fulton.....	Ward.
Lowell.....	Detroit.....	West Madison.
Lorain.....	Higgins	Geib.
Lamont.....	Logan	Republic.
Logan	Lamont.....	Euclid.
Literary.....	Merchant.....	Professor.
Luverne.....	Denison.....	Archwood.

TABLE NO. 9.—Continued.

Name of Street.	From Street.	To Street.
Lorain.....	Pearl.....	McLean.
Lake Shore Boulevard.....	Doan.....	113 ft. E. of Gilbert.
Lake View.....	Euclid.....	Northerly city limits.
Lake Shore Boulevard.....	156.25 ft. W. of Adams.....	590 ft. E. of Adams.
Literary.....	Merchant.....	Seneca.
Lake Shore Boulevard.	Adams.....	First angle easterly.
Morgan.....	Broadway.....	Cuyaboga River.
Mound.....	Ackley.....	South Willson.
Monroe	Green.....	York.
Myrtle.....	Sawtell.....	Westerly end.
Main Street Bridge.....	Southerly approach.....	
Mayfield.....	Knox.....	Fairview.
Martin.	Broadway.	Erie R. R.
Morgan Run.....	500 ft. S. of Tod.....	1,000 ft. N. of Ackley.
Merchant.....	Kenilworth.	Fairfield.
Mill Creek.....	Grist Mill.....	Asylum grounds bridge.
Morgan	Troy.....	Homewood.
Monroe.....	Pearl.....	Willett.

TABLE NO. 9.—Continued.

Name of Street.	From Street.	To Street.
Mill	Monroe.....	York.
McLean	Lorain.....	Monroe.
McKinley.....	Hazel.....	Crawford road.
Macedonia.....	Etna.....	Union.
Merchant.....	Starkweather.....	Fairfield.
Neville	Ridge.....	W. line Griswold allotment.
Oakdale	Beckman.....	N. Y. C. & St. L. R. R.
Odell al.....	Orange .	Broadway.
Orange.....	Odell al.....	Perry.
Oakdale	Cedar.....	Quincy.
Orange.....	Cross.....	Perry.
Penn.....	Fulton.....	Monroe.
Praha.....	Sawtell.....	Martin.
Prim.....	Clark.....	Gilbert.
Perry.....	Orange.....	Cherry.
Prospect.....	Sheriff.....	Easterly encroachment.
Pelton.....	Kenilworth.....	Professor.
Professor.....	Literary.....	Pelton.

TABLE No. 9.—Continued.

Name of Street.	From Street.	To Street.
Plum	Central	Seovill.
Perry.....	Seovill.....	Woodland.
Pearl	Denison ..	Northerly encroachment.
Plymouth.....	Cedar.....	Central.
Pearl	Holmden ..	Clark.
Perry.....	Woodland.....	Orange.
Pier No. 49 (location).....	Abbey street branch of the Central Viaduct	
Payne	Sterling.....	E. line Webster allotment.
Petrie	Barkwill.....	Petrie Street Bridge.
Phillips	Ætna.....	Union.
Pearl	Marvin	Trowbridge.
Pearl	Walton	Wade.
Pelton.....	Starkweather.....	Fairfield.
Professor.....	College.....	Pelton.
Quinby	Dunham.....	E. line Sapp allotment.
Quincy.....	Lincoln.....	Doan.
Quebec.....	Oakdale ...	Doan.
Ridge.....	Lorain.....	Denison.

TABLE No. 9.—Continued.

Name of Street.	From Street.	To Street.
Rayner	Ridge.....	W. line Griswold allotment.
Republic.	Euclid.....	Lamont.
Rockefeller property.....	L. S. Boulevard.....	Lake Erie.
Rhodes	Clark.....	Vega.
Rhodes	Marvin	Woodbridge.
Republic.....	Lamont.....	Euclid.
State	Washington	Detroit.
South Willson.....	Fleet.....	Linton.
Sawtell.....	Woodland	Prabs.
Stock street extension.....	Prim.....	Alum.
Schneider.....	Ridge.....	W. line O. L. 34.
Shaw	Ridge.....	W. line O. L. 34.
Streator.. ..	Euclid.....	Cedar.
Sharon.....	Kinsman.....	Alley easterly.
Scovill.....	Erie	Brownell.
Scovill.....	Brownell.....	Perry.
Salem.....	Wheatland	Homewood.
Shelburne.....	Quincy	Alley 600 ft. northerly.

TABLE No. 9.—Continued.

Name of Street.	From Street.	To Street.
South Logan.....	Cedar	Quebec
Streator	Cedar.....	Quincy.
Sayles	Cedar.....	Quebec.
Spangler.....	Hough.....	N. line M. S. & W. allotment.
Seranton.....	Clark	Pearl.
Seymour.....	Pearl.	Rhodes.
Starkweather.....	Pelton.....	Jennings.
Turney	Warner road.....	500 ft. southerly.
Turney	Warner road.....	Force.
Tioga	Warner road.....	Waterbury.
Temple	Troy.....	Homewood.
Troy.....	Temple.....	Morgan.
Tremont.....	Jefferson.....	Pelton.
Union	Wheatland	Tod.
Union	Axtell	Macedonia.
Vine.....	Scovill.....	Woodland.
Vienna	Cedar.....	Alley 1,650 ft. southerly.
West River.....	Detroit.....	Main.

TABLE No. 9.—Continued.

Name of Street.	From Street.	To Street.
Ward.....	Monroe	Jay.
Weckerling.....	Hamm.....	Blanche.
Willson	Woodridge.....	S. line O. L. 230.
Waverly	Lorain.....	Detroit.
Water.....	Lake.....	St. Clair.
West River.....	Old River.....	Willow.
Wentworth	Ridge	W. line O. L. 34.
Warner road.....	Turney.....	Force.
Walworth Run.....	300 ft. W. of Burton.....	300 ft. E. of C. C. C. & St. L. R. R.
Waterbury.....	Tioga.....	Garfield.
Woodward place.....	Logan	Easterly end.
Woodward place (extension).....	Republic.....	Woodward pl.
Webster.....	Erie.....	Brownell.
Warner road.....	Turney.....	Grand Division.
Woodland.....	Brownell.....	Perry.
Warner road.....	Broadway.....	Force.
Willett (extension) ¹	Monroe.....	Vega.
Willett (extension).....	Location of piers for bridge	

TABLE NO. 9.—Concluded.

Name of Street.	From Street.	To Street.
Wain al.....	Sayles.....	Doan.
Woodland	Cross.....	Perry.
Waring.....	Payne.....	Perkins.
West Clinton.....	Gordon .	Watterson.
Woodbridge	Pearl.....	Rhodes.
Wilbur	Streator .	Stark.
York.....	Monroe.....	Mill.
York.....	Franklin Circle.....	Monroe.

CUYAHOGA RIVER SURVEYS.

Name of Street.	From Street.	To Street.
Dock line located.....	Stone No. 38.....	Stone No. 39.
Dock line located.....	E. Side Main Street Bridge.....	Northerly.
Dock line located.....	Seneca street.....	Westerly.
Shore line located	N. L. Infirmary farm.....	S. line Infirmary farm.
River widening.....	Main street.....	Superior Street Viaduct.

TABLE No. 10.

PLATS OF SUBDIVISIONS EXAMINED AND REPORTED UPON BY THE CHIEF ENGINEER AND APPROVED BY THE COUNCIL IN 1897.

Name of Subdivisions and Description of Land Allotted.	Date of Approval.	For Record.		
		Date Filed.	Vol.	Pg.
Brewer, N. C.—Subdivision of sublots 18, 19 and 20 of S. & W. allotment, and sublots 18, 19, 20 and 21 of Stannard allotment.....	January 11, '97.	April 27, '97.	21	28
Sargent, Julia A.—Allotment of part of original allotment 34, Brooklyn township.....	February 8, '97.	February 10, '97.	23	26
Halsey Street Extension—Dedication by Day & Jackson in original lot No. 409, East Cleveland township.....	March 15, '97.	May 19, '97.	24	2
Dixon, C. H.—Subdivision of part of original lot No. 65, Brooklyn township.....	April 12, '97.	April 27, '97.	21	28
Brewer, Mrs. F.—Subdivision of part of original lot Nos. 65 and 66, Brooklyn township.....	April 12, '97.	April 29, '97.	21	28
Tod, Mrs. Sarah K.—Subdivision of part of original ten-acre lot No. 60.....	June 14, '97.	July 8, '97.	24	1
Andrews, E. W.—Third subdivision of part of original lots 344 and 345.....	June 21, '97.	June 22, '97.	23	27
Reid—Subdivision of part of original lot 224, Newburg township.....	June 21, '97.	June 23, '97.	23	28
Bishop, Clark—Subdivision of part of original lot No. 431, Newburg township.....	July 12, '97.	.....	.....	.....
Wood, Henry W. S.—Resubdivision, as recorded in volume 15-25 (to correct error).....	June 21, '97.	June 25, '97.	24	2
Goodman—Subdivision of part of 100-acre lot Nos. 463 and 464.....	August 16, '97.	August 23, '97.	24	3
Cody, A. P.—Subdivision of part of original lot No. 401, East Cleveland township.....	August 30, '97.	August 23, '97.	24	4
Hamilton—Allotment of part of original lot No. No. 386, East Cleveland township.....	Novem'r 22, '97.	Novem'r 26, '97.	24	13
Evins court, Luman street and Luman place dedication, in original lot No. 415, Newburg township.....	Novem'r 29, '97.	Decem'r 9, '97..	24	14

TABLE No. 11.

HOUSE NUMBERING, MAPS MADE AND NUMBERS ASSIGNED IN YEAR 1897.

ENGINEER'S REPORT.					581
Name of Street.	From Street.	To Street.	Length in Feet.	Number of Houses.	Numbers Put Up.
Aiken Avenue.....	Seranton Avenue.....	East View Avenue..	1,063	29	29
Ansel Avenue	St. Clair Street	Doan Street.....	10,548	80	80
Barber Avenue.....	Seranton Avenue.....	Walworth Street	2,848	100	100
Berwick Street	Kinsman Street.....	B Street.....	2,186	51	51
Bismarck Street.....	South Woodland Avenue.....	City limits.....	2,690	36	33
Caldwell Street.....	Lamoille Street.....	Auburn Street.....	300	14	14
Eastman Street.....	Thornton Street	Detroit Street	1,273	22	.....
Elmdale Street	Crawford Road	Hazel Street.....	390	7	7
Forestdale Street.....	Ellis Place.....	Pearl Street	2,008	64	64
Hampden Street.....	Alley	Superior Street.....	925	7	7
Hazel Street.....	Oakland Street	Lake View Avenue....	1,210	26	26
Hodgson Street.....	Rhodes Avenue.....	Gauge Street.....	678	7	7
Huron Street.....	Cuyahoga River	Brownell Street.....	3,376	59	.....
Lake View Avenue.....	6,115 south of St. Clair	Euclid Avenue	3,360	21	21
Mandrake Street	Spring Street	Water Street.....	490	10	10

TABLE No. 11.—Concluded.

Name of Street.	From Street.	To Street.	Length in Feet.	Number of Houses.	Numbers Put Up.
McKinley Street.....	Hazel Street.....	L. S. W. of Crawford Road.....	856	22	22
Norwich Street.....	Alley.....	Superior Street.....	590	22	21
Prim Street.....	Clark Avenue.....	Denison Avenue.....	2,505	18	18
Riverside Avenue.....	Pearl Street.....	Rhodes Avenue.....	3,645	31	39
19 Streets, Totals.....	.....	.....	40,931	626	654

Total number of miles..... 7.75 Total number assigned, being one for each 20 feet front.....4,100

Total number of buildings on these streets..... 626 Total number of numbers put up on these streets..... 654

TABLE No. 12.

STREETS CROSS-SECTIONED OR LEVELED, TAKEN DURING 1897.

Name of Street.	From Street.	To Street.	Cross Section. Length in Feet.	Level. Length in Feet.
Arundel.....	Warner road.....	Turney.....	.....	2,261
Albemarle.....	Warner road.....	Turney.....	.....	2,554
Anthony	Ridge.....	East end.....	573	.....
Alley	Champlain.....	Long.....	162	.....
Alley	Trumbull.....	Forest.....	1,060	.....
Alley	Orange.....	Pittsburg.....	.....	709
Ansel.....	Hough.....	Republic.....	600	.....
Alley	Bond	Erie	380	.....
Ambler.....	Woodland.....	Terry.....	.....	979
Adrian	Superior.....	Churchill.....	.....	340
Amesbury place.....	Talbot.....	Northerly.....	.....	412
Armitage.....	Willson.....	St. Clair..	.....	1,200
Baden court.....	Baden	Easterly .....	.....	250
Bliss.....	St. Clair.....	Becker.....	.....	1,639
Boulevard.....	Desmond..	Detroit.....	.....	465
Beechwood.....	Cedar.....	Quincy.....	2,263	.....

DEPARTMENT OF PUBLIC WORKS.

TABLE NO. 12.—Continued.

Name of Street.	From Street.	To Street.	Cross Section. Length in Feet.	Levels. Length in Feet.
Burton	Clark.....	Rhodes.....	4,238	.....
Buettner.....	Broadway.....	Easterly.....	.....	421
Buckley.....	Harbor	Burton	779	.....
Baxter.....	Tod.....	Broadway .....	.....	1,183
Bridge.....	Pearl.....	Hurd.....	743	.....
Beenan	Warnerroad.....	Easterly end.....	.....	2,115
Butler.....	Herbert.....	Westerly.....	390	.....
Columbus . . .	Center	Cuyahoga River.....	2,604	.....
Cedar.....	Fairmount.....	Easterly.....	.....	600
Carter.....	Seranton.....	N. Y., P. & O. Ry.....	.....	2,779
Cardwell.....	Turney.....	Easterly .....	.....	1,316
Carton... ..	Woodland	Easterly.....	.....	1,060
Carabelli	Euclid.....	Mayfield.....	1,863	.....
Carroll.....	134 ft. W. of York.....	Fulton.....	1,236	.....
Case.....	Croton.....	Kingsbury....	.....	646
Chapel.....	Scovill.....	Woodland	946	.....
Columbus lane.....	Brownell	Sassafras lane....	.....	1,048
Carry.....	Armitage.....	Willson.....	.....	412

TABLE No. 12.—Continued.

ENGINEER'S REPORT.					585
Name of Street.	From Street.	To Street.	Cross Section. Length in Feet.	Levels. Length in Feet.	
Carabelli	Euclid.....	Mayfield.....	.....	313	
Carlisle.....	Burton	Selden.....	.....	506	
Chandler	St. Clair.....	Donald. ....	.....	2,247	
Churchill	Doan.....	Parkwood .....	.....	1,621	
Cloud.....	Burton.....	Alaska.....	.....	487	
Desmond	Lake avenue.....	Ware.....	.....	2,700	
Doan	Superior.....	Churchill.....	.....	300	
Doan place	Harvard.....	Hughes.....	.....	949	
Duane.....	Woodbine	Franklin.....	.....	849	
Devine.....	Bailey.....	C, C, C. & St L. Ry.....	.....	384	
Duane	Franklin,.....	Woodbine.....	850	.....
Davis.....	Lorain.....	West Madison.....	2,921	.....
Davidson	Crown	Fairfield.....	793	.....
Effie.....	Alley	Northerly.....	.....	813	
Kvins court	Woodland	Southerly.....	.....	432	
Eastlake.....	Parkwood	Adrian .....	.....	1,175	
Fairview.....	Mayfield	Murray Hill.....	.....	1,302	
Fair court.....	Dunham.....	Easterly.....	.....	373	

TABLE NO. 12.—Continued.

Name of Street.	From Street.	To Street.	Cross Section. Length in Feet.	Levels. Length in Feet.
Forest.....	Kingsbury.....	Croton.....	.....	1,076
Fairlawn	Mapledale.....	Denison .....	.....	1,270
Fairlawn	Archwood.....	Denison	624	.....
Franklin Circle.....	Franklin.....	Fulton.....	246	.....
Glendale.....	Crawford road.....	Northerly.....	.....	389
Grand Division.....	Warner road.....	Turney.....	.....	3,185
Girard	Columbus.....	Cuyahoga river.....	.....	400
Grand Army court.....	Pearl.....	East end of street.....	.....	400
Gordon	Detroit.....	Clark.....	5,190	.....
Guy.....	Petrie	Weckerling.....	.....	700
Herald.....	Kinsman	Trenton.....	.....	915
Harvard.....	Valley.....	Broadway.....	.....	1,164
Harvard (overflow)	S. of Harvard along Valley switch.....	.....	.....	312
Horace	Green.....	Willett .....	.....	353
Higgins....	Clark	Lorain .....	.....	1,562
Haven.....	Superior.....	City limits	598	.....
Hume.....	Columbus.....	Cuyahoga river.....	.....	850
Jeffries	Warner road.....	Turney.....	.....	2,573

TABLE No. 12.—Continued.

Name of Street.	From Street.	To Street.	Cross Section. Length in Feet.	Levels. Length in Feet.
Jay.....	Pearl.....	Jersey.....	1,124	.....
Judd.....	Brownell.....	Perry.....	1,074	.....
John.....	Harbor.....	Woodbine.....	870	.....
Jefferson.....	Pelton.....	Herschel.....	1,987	.....
Kentucky.....	Franklin.....	Bridge.....	1,365	.....
Kennedy.....	Bolton.....	Oakdale.....	732	.....
Kenilworth.....	Scranton.....	Tremont.....	2,000	.....
Logan court.....	Logan.....	Easterly.....	320	.....
Logue.....	Sawtell.....	Beraun.....	.....	1,375
Leonetta place.....	Superior.....	Easterly end.....	.....	270
Luman place.....	Evins court.....	Luman.....	.....	255
Luman.....	Woodland.....	Southerly.....	.....	375
Larnder.....	Bazetta.....	Wellington.....	618	.....
Lexington.....	Willson.....	East Madison.....	.....	4,900
Lake View.....	Superior.....	N. Y., C. & St. L. Ry.....	2,282	.....
Lake avenue.....	Detroit.....	L. S. & M. S. Ry.....	.....	2,200
Library.....	Pearl.....	Brooklyn.....	.....	800
Lussenden.....	Central.....	Northerly.....	.....	369

DEPARTMENT OF PUBLIC WORKS.

TABLE No. 12.—Continued.

Name of Street.	From Street.	To Street.	Cross Section. Length in Feet.	Level. Length in Feet.
L. S. & M. S. R. of W.....	Ramsey.....	Westerly.....	300	.....
Malden.....	St. Clair.....	Donald.....	.....	2,516
Medina.....	Ansel.....	Woolsey .....	.....	1,404
Melvin.....	Dugway Brook.....	Superior.....	.....	2,084
Monumental court.....	Ontario.....	East side of court.....	.....	260
Monumental court.....	Superior.....	Euclid.....	.....	160
Munich.....	St. Clair.....	Northerly.....	980	.....
Mt. Vernon.....	Mapledale.....	Archwood .....	.....	575
McKinley	Crawford	Hazel.....	.....	404
McConnell.....	Miles	Broadway.....	1,188	.....
Nevada.....	Bolton.....	Oakdale .....	.....	573
Orchard place.....	Luverne.....	Mt. Vernon.....	.....	761
Oliver.....	St. Clair.....	Euclid.....	3,332	.....
Outhwaite.....	Slator.....	Cemetery.....	930	.....
Pratt.....	Woodland Hills.....	Easterly.....	1,196	.....
Prim.....	Clark.....	Storv.....	2,600	.....
Prosser.....	Willson.....	Lyons.....	.....	757
Parkwood.....	Superior.....	Dugway brook.....	.....	2,400

TABLE No. 12.—Continued.

ENGINEER'S REPORT.					589
Name of Street.	From Street.	To Street.	Cross Section Length in Feet.	Levels. Length in Feet.	
Quebec.....	Oakdale	Doan.....	1,702	.....
Rose.....	Jay.....	Bridge.....		231	
Rhodes.....	Clark.....	Clifford....		955	
Rutland.....	Kinsman.....	Scutherly....		750	
Roberts.....	Burton.....	Selden.....		503	
Scoville lane	Lake avenue.....	Detroit.....		582	
Sowienski.....	Woolsey.....	Ansel.....		1,659	
Stanard.....	Marquette.....	Brunswick		800	
Sackett alley	Pearl.....	Scranton.....	407	.....
Spring.....	Front.....	St. Clair.....	1,334	.....
St. Genevieve.....	Warner Road.....	Turney.....		2,873	
Streator.....	Cedar.....	Quincy.....	2,115	.....
Superior.....	Rosedale.....	Benton.....	1,823	.....
Stella place.....	Woodland.....	Northerly....		596	
Superior Street Viaduct.....	West end of draw	West end.....		1,383	
Sawyer.....	Miles Park street.....	Union		6,076	
Sayles.....	Quebec.....	Cedar.....		1,753	
Stoneman.....	Kinsman	Westerly	1,000	.....

DEPARTMENT OF PUBLIC WORKS.

TABLE NO. 12.—Continued.

Name of Street.	From Street.	To Street.	Cross Section. Length in Feet.	Levels. Length in Feet.
Scranton	Seneca (bridge).....	Fairfield.....	.....	4,600
South Willson.....	Fleet.....	Orey.....	1,494	.....
Stewart.....	Turney.....	Easterly.....	.....	1,381
Turney.....	Warner Road.....	City limits.....	.....	4,600
Turney.....	Warner Road.....	Southerly.....	.....	703
Train.....	Burton.....	Clark.....	.....	4,023
Turney.....	Warner Road.....	Northerly.....	523	.....
Tustin.....	Forest.....	Easterly.....	680	.....
Trenton.....	Herald.....	Rutland.....	594	.....
Tustin.....	Forest.....	Easterly.....	.....	790
Talbot.....	Am-sbury.....	Ansel.....	.....	697
Talbot court.....	Talbot.....	Northerly.....	.....	368
Union.....	Broadway.....	Woodland Hills. . .	.....	6,760
Vanek.....	Kinsman.....	Higgins.....	1,440	.....
Voltaire.....	Columbus.....	Cuyahoga river.....	.....	332
Warner road.....	Turney.....	Northerly.....	.....	410
Warner road.....	Turney.....	Force.....	.....	1,030
Woodland.....	Eagle.....	Central.....	.....	541

TABLE No. 12.—Concluded.

Name of Street.	From Street.	To Street.	Cross Section Length in Feet.	Level's Length in Feet.
Woodland Hills.....	Miles.....	Broadway	530	.....
Wendell.....	Broadway	Easterly end.....	.....	480
Whitman.....	Harbor	Woodbine	1,670	.....
Woodbine	Harbor	Fulton.....	1,620	.....
West Clinton.....	Gordon.....	Watterson.....	1,600	.....
Waverly.....	Lake Erie	Southerly.....	.....	732
Woodland.....	Eagle.....	Cross .....	.....	1,423
Wabash	Kinsman	Trenton .....	.....	758
Totals.....	.....	.....	69,980	120,815

Totals..... 69,980 ft. 120,815 ft.
=13.25 miles. =22.88 miles.

TABLE NO. 13.
GRADES ESTABLISHED IN 1897.

Name of Street.	From Street.	To Street.	Length in Feet.	When Established.
Beechwood	Cedar	Quincy	2,273	August 8.
Bond alley	Bond	Erie	482	October 11.
Beuttner court	Broadway	Easterly	420	July 6.
Columbus lane	Brownell	Sassafras alley	1,048	October 4.
Davis	Lorain	West Madison	2,921	June 7.
Dean place	Harvard	Hughes	949	November 11.
*Duane	Franklin	Woodbine	848	November 15.
Elmdale	Crawford road	Hazel	368	September 13.
*Fairchild	Fairmount	Stearns	916	May 17.
Grand Army court.	Pearl	Easterly	400	October 25.
Halstead	Detroit	Northerly	829	June 21.
Hazel	Oakland	Lake View	1,275	September 13.
Hinkley	Franklin	West Madison	835	October 4.
Hough place	220 feet West of Amesbury	350 feet east of Amesbury	620	October 18.
Kirkwood	Basetta	Wellington	620	December 6.
Lake View	675 feet North of Superior	N. Y., C. & St. L. Ry.	3,020	September 13.

TABLE No. 13.—Continued.

ENGINEER'S REPORT.

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Name of Street.	From Street.	To Street.	Length in Feet.	When Established.
Lapier	Storer.....	Denison	3,250	December 20.
Linton.....	Ackley	Westerly	844	June 14.
Lowell.....	Detroit	Franklin.....	670	December 6.
*Mandrake.....	Water	Westerly.....	330	November 27.
Mason lane.....	Case ..	Easterly	353	November 11.
McKinley.....	Crawford road.....	Hazel.....	404	September 13.
Minton	Lorain.....	Denison	1,523	May 10.
Oakland	Superior.....	100 feet south of Hazel.....	2,578	September 13.
*Prim.....	Clark	Storer	2,630	June 28.
Redell	East Madison.....	Seedle	1,158	May 17.
*Redell	East Madison	Seedle	1,158	August 16.
Ritchie	Storer	Denison	1,497	July 26.
Rose.....	Bridge.....	Jay.....	232	November 27.
Sackett alley	Seranton.....	Pearl.....	407	April 26.
Sage.....	Lorain.....	Denison	1,300	May 10.
Sears	Storer	Denison	1,749	May 10.
Sherman.....	East Madison.....	Westerly.....	150	June 28.
Sherwood.....	Ambler	McCurdy.....	445	June 28.

TABLE No. 13.—Concluded.

Name of Street.	From Street.	To Street.	Length in Feet.	When Established.
South Willson.....	Mound.....	Orey	3,130	June 28.
Sophia.....	Woodland Hills	Wilhelm	9 3	January 25.
Trumbull alley.....	Trumbull.....	Forest	1,060	October 11.
Tustin.....	Forest.....	Easterly.....	747	December 20.
West Clinton.....	Watterson	City Limits.....	1,300	June 21.
West Jackson.....	Detroit	Northerly....	964	June 21.
Willard.....	Wellington	Conover	2,082	May 17.
*Woodland Hills.....	Miles	Broadway	630	June 7.
Yonkers	Lorain.....	Denison	1,729	May 10.
Zoeter	Dunham.....	Giddings.....	1,190	May 10.
Totals .....	.....	.....	52,267	— 9.9 miles.

* Indicates grade re-established.

TABLE No. 14.

STREETS AND ALLEYS DEDICATED BY NEW SUB-DIVISIONS IN 1897, AND GRADED OR OTHERWISE IMPROVED, OR IMPROVEMENT GUARANTEED BY THE PROPRIETORS.

Name.	From Street.	To Street.	Name of Allotment.	Date of Approval.	Date for Record.	Length in Feet.
Storer (n'y 30 ft.) ave..	Gordon avenue	Prin street	Julia A. Sargent's allotment.....	Feb. 8, 1897...	Feb. 10, 1897...	240.04
Halsey street.....	S. L. Sayles sub-div...	449.52 ft. southerly....	Day & Jackson's dedication	Mar. 15, 1897...	May 19, 1897...	449.52
Orchard place.....	Luverne street.....	W. L. Dixon's subdiv.	Chas. H. Dixon's sub-division.....	Apr. 12, 1897	Apr. 28, 1897...	248.78
Orchard place.....	W. L. C. Dixon's subd.	W. L. Mrs. Brewersub.	Mrs. F. Brewer's sub-division	Apr. 12, 1897...	Apr. 29, 1897...	114.23
Duluth street.....	East Madison avenue.	Giddings avenue.....	E. W. Andrew's third sub-division	Jun. 21, 1897...	Jun. 22, 1897...	444.61
Reid street.....	Petrie street.....	W. L. Reid sub div....	Reid sub-division	Jun. 21, 1897...	Jun. 23, 1897...	867.73
Goodman street.....	Warner road... ..	N. L. Goodman subd.	Goodman sub division.....	Aug. 16, 1897...	Aug 23, 1897...	1,733.26
Goodman court.....	Force street	Goodnan street.....	Goodman sub-division.....	Aug. 16, 1897...	Aug. 23, 1897...	140 00
Republic place.....	Republic street.....	W. L. A. P. Cody's subd	A. P. Cody's sub-division.....	Aug. 30, 1897...	Aug. 31, 1897...	358.67
Melvin street.....	Superior street.....	Orville street.....	Hamilton's allotment.....	Nov. 22, 1897...	Nov. 26, 1897...	925.72
Evins court.....	Woodland avenue	431.60 ft. southerly....	Evins et. ded. by M. Evans et al...	Nov. 29, 1897...	Dec. 9, 1897...	431.60
Luman street.....	Woodland avenue ..	275 ft. southerly	Evins et. ded. by M. Evans et al...	Nov. 29, 1897...	Dec. 9, 1897...	2,755.00
Luman place.....	Evins court.....	Luman street.....	Evins et. ded. by M. Evans et al...	Nov. 29, 1897...	Dec. 9, 1897...	249.74

13 streets. Total length in feet 6,528.79, or 1.24 miles.

TABLE No. 15.
MONUMENTS SET OR RESET FROM SURVEYS IN 1897.

Name of Street.	Place.	At Intersection.	Place.
Bond	C.	Hamilton street.....	C.
Canal.....	C.	Angle N. of Champlain.....	.....
Carabelli	C.	Mayfield street.....	C.
Cemetery	W. L.	Mona street.....	C.
Chatham	N. L.	Jersey street.....	C.
City property.....	W. L.	S. of Lake Shore Boulevard.....	.....
City property.....	E. L.	S. of Lake Shore Boulevard.....	.....
Chatham	N. L.	Penn street.....	C.
Cherry.....	C.	Alley.....	C.
Cherry alley.....	C.	Alley.....	C.
Cherry alley.....	C.	Odell alley.....	E. L.
Church	C.	Angle east of State street.....	.....
Denison	C.	O. L. line near Jennings .....	.....
Fairview	C.	Mayfield road	S. L.
Giddings	C.	Whitney street.....	C.
Halsey	C.	Wain alley.	N. L.

TABLE No. 15.—Continued.

Name of Street.	Place.	At Intersection.	Place.
Holton	C	Chadwick	C
Homewood	C	Morgan avenue.....	S. L.....
Jennings	C	Valentine street.....	C
Jennings	C	S. line of Infirmary .....	.....
Jennings	C	4th angle N. of Denison .....	.....
Jennings	C	3rd angle N. of Denison.....	.....
Jennings	C	2nd angle N. of Denison.....	.....
Jennings	C	1st angle N. of Denison .....	.....
Lake Shore Boulevard.....	C	City property.....	W. L.....
Lake Shore Boulevard.....	C	City property.....	E. L
Literary.	C	Merchants.....	C
Literary (west)	C	Pelton street.....	C
Literary (east).....	C	Pelton street.....	C
Literary.....	C	Angle.....	.....
Martin	C	Douse allotment.....	N. L.....
Martin	C	Broadway	N. L.

DEPARTMENT OF PUBLIC WORKS.

TABLE No. 15.—Continued.

Name of Street.	Place.	At Intersection.	Place.
Mayfield.....	C.....	Carabelli street.....	C.....
Mayfield.....	C.....	Luceil street.....	C.....
Mayfield.....	C.....	Coltman street.....	C.....
Mecca.....	E. L.....	1st angle N. of Detroit.....	.....
Mecca.....	C.....	2nd angle N. of Detroit.....	.....
Monroe.....	N. L.....	Jersey street.....	C.....
Murray Hill.....	C.....	O. L. line near Adelbert.....	.....
Payne.....	S. L.....	Waring street.....	C.....
Pearl.....	C.....	Angle at N. Y., C. & St. L. R. R.....	.....
Pearl.....	C.....	Franklin avenue.....	C.....
Seranton.....	E. L.....	Agnes court.....	C.....
Spangler.....	C.....	N. L. Spangler heirs' allotment.....	.....
Spruce.....	C.....	Center street.....	C.....
State.....	C.....	Franklin avenue.....	N. L.....
State.....	C.....	Alley.....	C.....
State.....	C.....	Clinton street.....	N. L.....

TABLE No. 15.—Continued.

Name of Street.	Place.	At Intersection.	Place.
State.....	C..	Clinton street	S. L.,.....
State ^e	C.....	Church street (west).....	C.....
State	C.....	Church street (east)	C.....
Waverly.....	C.....	Alley N. of Lorain street.....	C.....
Waverly.....	C.....	Lawn street	C.....
Waverly.....	C.....	Angle S. of Pear street.....	.....
Ward.....	C.....	Lorain street.....	S. L.....
Ward.....	C.....	1st alley S. of Lorain street.....	C.....
Ward	C.....	2nd alley S of Lorain street.....	C.....
Ward.....	C.....	Hancock street	C.....
Water.....	W. L.....	Mandrake lane	C.
Wheatland	C.....	Union street.....	N. L.....
York.....	C.....	Monroe street.....	N. L.....
York.....	C.....	Chatham street.....	C.....
York.....	C.....	Lorain street.....	N. L.....
York.....	C.....	Carroll street.....	S. L.....

TABLE No. 15.—Concluded.

Name of Street.	Place.	At Intersection.	Place.
York.....	C.....	Bridgo street.....	C.....
York.....	C.....	Jay street.....	S. L.....
York.....	C.....	Vostry street.....	C.....
York.....	C.....	Circle.....	S. L.....

Number of Monuments referenced.....	239
Number of Monuments reset from reference.....	89
Number of Monuments tested.....	121
Number of Monuments reset from survey.....	63
Total.....	517

TABLE No. 16.

NOTICES SERVED DURING THE YEAR FOR CONSTRUCTING HOUSE SEWER AND WATER CONNECTIONS TO CURB LINE IN ADVANCE OF PAVING.

Name of Street.	From Street.	To Street.	Length.	Notices served specifying total No. of connections required.		Number of connections previously put in		Additional connections put in by property owners.		Delinquent connections put in by City.	
				Sewer.	Water.	Sewer.	Water.	Sewer.	Water.	Sewer.	Water.
Brownell	Scovill.....	Woodland	921	49	49	40	43	9	6	.....	.....
Clark	Pearl	Jennings	2,234	101	101	93	98	8	3	.....	.....
Erie court	Erie	Brownell.....	1,160	23	23	6	.....	15	17	2	6
Harmon.....	Central.....	Woodland	1,480	62	62	42	51	19	16	1	1
Luverne.....	Archwood	Bradwell.....	1,151	45	45	35	85	10	10	.....	.....
La Grange.....	East Madison....	Ingleside.....	700	31	31	22	22	9	9	.....	.....
State.....	Franklin	Washington	1,452	31	31	26	27	5	4	.....	.....
Seelye.....	Woodland	Julia	1,316	114	114	100	104	12	8	2	2
Sumner.....	Erie	Brownell.....	1,162	23	23	16	22	5	1	2	.....
Vine.....	Woodland	Scovill.....	914	54	54	47	42	7	12	.....	.....
Van Buren.....	Central	Quincy..	927	36	36	23	32	13	4	.....	.....
Webster.....	Erie	Brownell	1,163	71	71	61	66	10	5	.....	.....
Woodland court...	Woodland	Southerly.....	930	55	55	54	54	1	1	.....	.....

TABLE NO. 16.—Continued.

Name of Street.	From Street.	To Street.	Length.	Notices served specifying total No. of connections required.		Number of connections previously put in.		Additional connections put in by property owners.		Delinquent connections put in by City.	
				Sewer.	Water.	Sewer.	Water.	Sewer.	Water.	Sewer.	Water.
Waverly.	Detroit.....	Lorain.....	3,103	141	141	109	122	31	18	1	1
Ward	Lorain.....	Monroe.....	1,135	56	56	40	45	15	10	1	1
Hamilton.....	Wood.....	Erie.....	924	37	37	6	30	31	7		
Hickox	Euclid.....	Prospect.....	461	16	16	8	12	8	4		
Woodland.....	Eagle.....	Central.....	638	20	20	18	19	2	1		
Cherry.....	Perry.....	Cherry alley.....	319	11	11	7	9	4	2		
Cherry alley.....	Cherry.....	Ocell alley.....	384	24	24	4	5	20	19		
Willson	Bower.....	Broadway	4,614	155	155	46	67	109	85		
Osborn.....	Central	Scovill.....	1,279	68	68	63	63	5	5		
Center.....	Cuyahoga river...	Main	980	36	36	30	35	6	1		
Waring.....	Payne.....	Perkins.....	914	47	47	41	41	6	6		
Spangler.....	Hough.....	Southerly.....	664	25	25	16	16	9	9		
Gloyd	Hoffman	Superior.....	971	49	49			49	49		
York.	Franklin	Monroe.....	2,310	114	114	90	103	24	11		
Totals.....			34,256	1,494	1,494	1,043	1,163	442	320	9	11

TABLE No. 16.—Concluded.

STREETS IN PROGRESS.

Name of Street.	From Street.	To Street.	Length.	Notices served specifying total No. of connections required.		Number of connections previously put in.		Additional connections put in by property owners.		Delinquent connections put in by City.	
				Sewer.	Water.	Sewer.	Water.	Sewer.	Water.	Sewer.	Water.
Buckley	Harbor	Burton.....	780	37	37	17	26	20	11	.....	.....
Bolton	Quincy.....	Woodland.....	1,817	126	126	81	102	45	24	.....	.....
Wade Park.....	Norwood.....	Boulevard.....	7,967	240	299	207	260	92	39	.....	.....
Woodbridge	Rhodes.....	Pearl.....	2,853	147	147	76	85	71	62	.....	.....
Putnam	Central.....	Scovill.....	1,223	63	63	42	44	21	19	.....	.....
Dunham.....	Hough.....	Wade Park.....	2,651	13	11	.....	.....	13	11	.....	.....
Totals.....	.....	.....	51,547	2,179	2,177	1,466	1,680	704	486	9	11

STREETS COMPLETED IN 1897.

Alanson.....	Central....	Quincy.....	1,009	49	49	43	43	6	6	.....	.....
Central	East Madison.....	Alanson	1,514	86	86	45	55	36	26	5	5
Lexington.....	Willson.....	East Madison.....	4,933	217	217	140	127	72	85	5	5
Mayfield.....	Knox	Fairview	1,945	98	98	28	30	70	68	.....	.....
Totals.....	.....	.....	60,948	2,629	2,627	1,722	1,935	888	671	19	21

TABLE No. 17.
HOUSE CONNECTIONS CONSTRUCTED, REPAIRED OR CLEANED.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.
Laid in unpaved streets.....	55	35	230	290	361	263	260	295	181	188	163	304	2,625
Laid in paved streets.....	2	2	3	8	4	7	6	10	7	3	4	3	59
Extended from curb line.....	4	10	29	37	32	29	25	38	26	30	45	28	333
Repaired in paved streets.....	2	1	1	3	3	1	2	2	1	4	.....	2	22
Repaired in unpaved streets.....	.....	.....	1	2	1	3	2	1	1	3	1	.....	15
Repaired inside of curb line.....	2	2	5	5	6	14	6	7	12	5	4	10	78
Cleaned inside of curb line.....	4	6	5	2	6	2	1	7	1	3	1	2	40
Cleaned in unpaved streets.....	3	.....	.....	.....	2	1	2	.....	1	3	.....	.....	12
Totals for each month	72	56	274	347	415	320	304	360	230	239	218	349	3,184

TABLE No. 18.

COST OF LIGHTING, CARE AND MAINTENANCE OF
PUBLIC STREET LAMPS FOR 1897.

CLEVELAND GAS LIGHT & COKE COMPANY.		
(East Side.)		
Gas furnished public street lamps	\$49,603 81	
Repairs and new work.....	2,880 41	
Gas furnished City Hall	264 88	
Gas furnished Superior street viaduct.....	16 72	
Lighting extinguishing and care of lamps	16,676 19	
Burners and tips furnished (6 gross).....	94 05	\$ 69,536 06
PEOPLE'S GAS LIGHT COMPANY.		
(West Side.)		
Gas furnished public street lamps.....	\$24,092 26	
Repairs and new work.....	1,293 97	
Gas furnished Superior street viaduct.....	14 16	
Lighting, extinguishing and care of lamps.....	7,445 88	
Tips furnished (6 gross).....	6 00	32,852 27
F. J. HARRISON.		
Lighting (vapor) street lamps.....	\$31,682 99	
Setting and re-setting lamp posts.....	308 75	31,991 74
SUN VAPOR STREET LIGHT COMPANY.		
Lighting (vapor) street lamps.....	\$34,636 26	
Setting and re-setting lamp posts.....	546 25	35,182 51
CLEVELAND ELECTRIC ILLUMINATING COMPANY.		
Lighting (arc) street lamps	\$62,778 20	
Lighting (incandeccent lights) City Hall.....	2,880 00	65,658 20
CITY FOUNDRY COMPANY.		
Lamp posts, 463.....	\$ 2,324 26	
Lamp supports, 311	93 30	2,417 56

TABLE No. 18.—Concluded.

H. B. HUNT STAMPING WORKS.		
70 lamps repaired.....	\$ 31 20	\$ 31 20
Salary of Gas Inspector.....	.....	1,000 00
Total .....	.....	\$238,669 54

TABLE No. 18.—Concluded.

SUMMARY.

Total cost of gas furnished street lamps.....		\$ 73,696 07
“	“ lighting, extinguishing and care of gas lamps.....	24,122 07
“	“ lighting vapor lamps.....	66,319 25
“	“ electric (arc) lamps.....	62,778 20
“	“ repairs and new work.....	5,029 38
“	“ lamp posts.....	2,324 26
“	“ lighting City Hall building.....	3,144 88
“	“ street lanterns and supports.....	124 50
“	“ lighting Superior street Viaduct.....	30 88
“	“ burners and tips.....	100 05
Salary of Gas Inspector.....		1,000 00
Total.....		\$238,669 54

TABLE No. 19.

SUMMARY SHOWING THE TOTAL NUMBER OF LAMPS
LIGHTED, THE AVERAGE NUMBER OF LAMPS
BURNING, NEW LAMPS LIGHTED, OLD
LAMPS RE-LIGHTED, AND LAMPS
DISCONTINUED BY EACH OF
THE LIGHTING COM-
PANIES DURING
YEAR 1897.

CLEVELAND GAS LIGHT & COKE CO.			
Number of lamps lighted December 31, 1896	4,114		
Number of lamps lighted during the year.....	131		
Number of lamps re-lighted during the year.....	12		
Number of lamps changed during the year from vapor	232		
		4,489	
Number of lamps changed during the year to electricity.....	980		
Number of lamps discontinued permanently	5	185	
Number of lamps lighted December 31, 1897.....			3,504
Average number of lamps lighted during the year			3,839
PEOPLE'S GAS LIGHT COMPANY.			
Number of lamps lighted December 31, 1896.....	1,984		
Number of lamps lighted during the year.....	67		
Number of lamps re-lighted during the year.....	8		
Number of lamps changed during the year from vapor.....	97		
		2,156	
Number of lamps changed during the year to electricity.....		411	
Number of lamps lighted December 31, 1897.....			1,745
Average number of lamps lighted during the year.....			1,868
F. J. HARRISON.			
Number of vapor lamps lighted December 31, 1896.....	4,635		
Number of new vapor lamps lighted to May 31, 1897.....	189		
Number of vapor lamps re-lighted to May 31, 1897.....	1		
Number of vapor lamps discontinued permanently.....		1	
Number of vapor lamps discontinued for gas.....		33	
Number of vapor lamps discontinued for electricity.....		60	

TABLE NO. 19.—Continued.

SUN VAPOR STREET LIGHT CO.			
Number of (new) vapor lamps lighted to December 31, 1897.....	108		
Number of vapor lamps re-lighted to December 31, 1897.....	3		
Number of vapor lamps discontinued for gas, 1897.....		332	
Number of vapor lamps discontinued for electricity.....		50	
	4,936	476	
Number of vapor lamps lighted December 31, 1896.....			4,460
Average number of vapor lamps lighted during the year.....			5,138
CLEVELAND ELECTRIC ILLUMINATING CO.			
Number of 2,000 C. P. arc lamps lighted December 31, 1896.....	500		
Number of 2,000 C. P. arc lamps lighted during year 1897.....	354		
Number of 2,000 C. P. arc lamps lighted December 2, for temporary service on Willson avenue.....	2		
Total		856	
Discontinued, (transferred to Erie R. R. Co.).....		2	
Total on December 31, 1897.....			854
Average number of lamps lighted during the year.....			662

TOTAL NUMBER OF LAMPS BURNING DECEMBER 31, 1897.

Gas.....	5,249
Vapor.....	4,460
Electric.....	854
Grand total.....	10,563

TABLE NO. 19.—Concluded.

RECAPITULATION.

Number of gas lamps lighted December 31st, 1896.....	6,096	
Number of gas lamps lighted December 31st, 1897.....	5,249	
Decrease during the year.....		849
Number of vapor lamps lighted December 31st, 1896.....	4,635	
Number of vapor lamps lighted December 31st, 1897.....	4,460	
Decrease during the year.....		175
Number of 2,000 C. P. arc electric lamps lighted December 31st, 1896.....	500	
Number of 2,000 C. P. arc electric lamps lighted December 31st, 1897.....	854	
Increase during the year.....		354
Total number of lamps of all kinds December 31st, 1896.....	11,233	
Total number of lamps of all kinds December 31st, 1897.....	10,563	
Decrease during the year		670

TABLE NO. 20.

OWNERSHIP AND FRONTAGE MAPS MADE IN 1897 FOR GRADING, PAVING AND SEWERS.

Name of Street.	From Street.	To Street.	Improvement.	Length in Feet.
Alabama.....	St. Clair	L. S. & M. S. R'y.....	Pave.....	1,270
Ansel.....	Hough extension.. ..	Republic.....	Grade.....	640
Baden court.....	Baden	Easterly end.....	Sewer.....	240
Barrett	L. S. & M. S. R'y.....	Detroit.....	Sewer.....	1,941
Beechwood	Cedar.....	Quincy.....	Pave.....	2,175
Bergen.....	Clark	Train.....	Sewer.....	755
Bolton.....	Woodland	South Woodland.....	Pave.....	700
Bond alley.....	Bond.....	Erie	Pave.....	490
Boulevard J.....	Desmond	Detroit	Sewer.....	640
Brandon.....	Murray Hill.....	Arey.....	Sewer.....	2,070
Breakwater.....	Waverly.....	200 feet west of Alger	Sewer.....	1,700
Brenton.....	Cedar.....	Central	Pave.....	1,475
Bridge.....	Pearl.....	Hurd	Pave.....	745
Brinsmade.....	Ridge....	Bigelow.....	Sewer.....	1,115
Brinsmade.....	Alley east of Bigelow.....	Libbie.....	Sewer.....	1,200
Buckley	Harbor.....	Burton	Pave.....	780

DEPARTMENT OF PUBLIC WORKS.

TABLE No. 20.—Continued.

Name of Street.	From Street.	To Street.	Improvement.	Length in Feet.
Burton	Clark	Storer.....	Pave.	2,575
Carlisle	Burton.....	Selden.....	Sewer.....	505
Camden.....	Brake.....	Bigelow.....	Sewer.....	2,630
Carroll.....	West of York.....	Fulton	Pave.....	1,235
Chandler.....	St. Clair.....	Donald.....	Sewer.....	2,260
Chapel.....	Scovill.....	Woodland	Pave	950
China... ..	Siam.....	Chatham.....	Sewer.....	450
Church	Duane.....	Pearl.....	Pave.....	1,690
Churchill	Doan.....	Parkwood.....	Sewer.....	1,630
Clark	Isabella.....	Gilbert.....	Sewer.....	1,350
Clark	Walworth.....	Lenox.....	Sewer.....	600
Columbus.	Center.....	The bridge.....	Re-pave.....	2,020
Columbus lane.....	Brownell.....	Sassafras lane.....	Pave.....	1,045
Cornelia.....	Hodge.....	Woolsey	Sewer.....	927
Court alley	St. Clair.....	Broom alley	Re-pave.. ..	180
Courtland.....	Detroit.....	Lorain.....	Pave.....	8,190
Davis.....	Lorain.....	Willard.....	Pave.....	750
Desmond	Lake avenue.....	Boulevard	Sewer.....	9,035

TABLE No. 20.—Continued.

Name of Street.	From Street.	To Street.	Improvement.	Length in Feet.
Devine	Bailey	N. Y., C. & St. L. R'y.....	Sewer.....	800
, Doan	Superior.....	Churchill.....	Sewer.....	300
Douse.....	550 feet north of Broadway.....	North end.....	Sewer.....	1,035
Duane.....	Franklin.	Woodbine	Pave.....	845
Duluth	Giddings.....	East Madison.....	Sewer.....	445
Dunham.....	Superior.....	Hough.....	Pave.....	3,675
East Clark.....	Petrie	Westerly.....	Grade.....	1,670
East Lake.....	Adrian.....	Parkwood	Sewer.....	1,180
East Madison.....	Woodland	Kinsman	Pave.	4,065
Ebon.....	Harvard.....	Finney.....	Sewer.....	730
Edgewater.....	Lake avenue.....	Detroit.....	Sewer.....	1,880
Eglindale.....	Scranton.....	East View.....	Sewer.....	950
Evins court.....	Woodland	South end.	Sewer.....	431
Fair court	Dunham.....	East end.....	Sewer.....	473
Fairlawn	Archwood.....	Denison ..	Grado.....	635
Fen.....	Quincy.....	C. & P. R. R.....	Sewer.....	230
Finney	Valley.....	Hooker.....	Sewer.....	800
Fir.....	Gordon.....	Waverly.....	Sewer.....	890

DEPARTMENT OF PUBLIC WORKS.

TABLE No. 20.—Continued.

Name of Street.	From Street.	To Street.	Improvement.	Length in Feet.
First avenue.....	Central.....	Woodland.....	Pave.....	2,940
Florence.....	Quincy.....	Woodland.....	Pave.....	1,507
Folj imbe.....	Parker sub division.....	Outhwaite.....	Sewer.....	610
Forest.....	Kingsbury run.....	Croton.....	Sewer.....	1,000
Fountain.....	Train.....	Clark.....	Sewer.....	770
Francis.....	Wilson.....	Tod.....	Sewer.....	1,660
Franklin.....	Gordon.....	Pease court.....	Sewer.....	2,790
Franklin place.....	Fulton.....	Franklin avenue.....	Pave.....	200
Franklin court.....	Franklin avenue.....	South end.....	Pave.....	805
Garden place.....	Central..	North end.....	Sewer.....	205
Giddings.....	Lexington.....	Superior.....	Pave.....	2,935
Glass.....	Light.....	Norwood.....	Sewer..	489
Gordon.....	Detroit.....	Clark.....	Pave.....	5,125
Gordon.....	Clark.....	C., C., C. & St. L. R'y.....	Sewer..	300
Grace.....	Ridge....	Geib.....	Sewer.....	1,310
Graton.....	Union.....	Ætna.....	S.wor.....	1,480
Gloyd.....	Hoffman.....	Superior.....	Sewer.....	1,100
Halsey.....	Main alley.....	Southerly.....	Sewer.....	396

TABLE No. 20.—Continued.

ENGINEER'S REPORT.					615
Name of Street.	From Street.	To Street.	Improvement.	Length in Feet.	
Halsey.....	Sayle's allotment.....	Quebec.....	Sewer.....	785	
Hawthorn	Willson.....	Second	Sewer.....	1,730	
Herbert.....	Francis.....	Northerly end.....	Grade.....	1,070	
Hickory lane	Muirson	Westerly.....	Pave.....	268	
Hillman.....	Broadway	Tod... ..	Sewer.....	1,130	
Holmden	Pearl.....	Jennings	Pave.....	2,360	
Holton.....	East Madison.....	Woodland Hills.....	Pave.....	3,940	
Horne.....	East Madison.....	West end.....	Sewer.....	528	
Hough place.....	220 feet west of Amesbury.....	350 feet east of Amesbury	Pave....	620	
Humboldt.....	Woodland	Orange.....	Pave.....	330	
Hurlb t.....	Payne	Perkins.....	Sewer.....	975	
Jay.....	Pearl.....	Jersey	Pave....	1,125	
Jefferson	Pelton.....	Broadway	Pave.....	4,475	
Jessie.....	Cedar.....	Central.....	Pave.....	1,505	
John.....	Woodbine	Harbor.....	Pave.....	820	
Judd.....	Brownell.....	Perry.....	Pave.....	1,030	
Junction.....	Walworth.....	Train	Sewer.....	465	
Kenilworth.....	Pelton.....	Jennings.....	Pave.....	965	

DEPARTMENT OF PUBLIC WORKS.

TABLE No. 20.—Continued.

Name of Street.	From Street.	To Street.	Improvement.	Length in Feet.
Kentucky.....	Franklin..	Bridge.....	Pave.....	1,200
Kilfoyl	Glass.....	Carl.....	Sewer	670
Korman	Woolsey	Ansel.....	Sewer.....	1,160
L. S. & M. S. R. of W.....	Gordon.....	Waverly.....	Sewer.....	1,250
Larnder... ..	Wellington.....	Bazetta.....	Grade.....	618
Lenox	Clark.....	South end.....	Sewer.....	800
Lewis' on.....	St. Clair.....	Bliss.....	Sewer.....	1,265
Lexington.....	Willson.....	East Madison.....	Pave.....	3,265
Linton.....	Ackley..	West end.....	Grade.....	844
Lockyear	Hodge	Woolsey	Sewer.....	1,925
Lodge.....	Central.....	Quincy.....	Pave.....	950
Lorain.....	Pearl.....	Ridge.....	Re-surface.....	9,530
Main	Water.....	East River.....	Pave.....	375
Mandrake.....	Water	Westerly.....	Grade.....	350
Marcy.....	Superior.....	Wade Park.....	Sewer.....	1,630
Market	Pearl.....	McLean	Sewer.....	240
Meridian	Marcy	Crawford.....	Sewer.....	925
Miles park.....	Sawyer.....	Woodland Hills.....	Sewer.....	550

TABLE No. 20.—Continued.

Name of Street.	From Street.	To Street.	Improvement.	Length in Feet.
Miles Park street.....	Broadway	Sawyer.....	Sewer.....	380
McDonnell	Gorman.....	C & P. R'y..	Grade.....	855
Nowark.....	Burton.....	Selden.....	Sewer.....	500
Oak.....	Walnut.....	Chestnut.....	Sewer.....	270
Oakdale.....	Quincy.....	Woodland	Sewer.....	1,810
Old River.....	Weddell.....	Taylor.....	Pave....	1,650
Oliver.....	Euclid.....	Superior	Pave.....	2,525
Oliver.....	Euclid.....	Superior.....	Sewer.....	2,525
Orange.	Humboldt	Case	Pave.....	1,775
Orange.....	Humboldt	Forest	Sewer.....	705
Orchard place.....	Luverne	Westerly.....	Sewer.....	363
Ottawa	Marcelline.....	Jones.....	Sewer.....	1,545
Parkman lane.....	Brownell.....	Erie.....	Pave.	1,150
Pearl	Franklin.....	Walworth Run Br.....	Pave.....	3,135
Pleasant....	Sackett.....	North end.....	Sewer.....	315
Pleasant.....	Clark.....	Southerly.....	Sewer.....	1,150
Plymouth.....	Cedar.....	Central.....	Pave.....	1,460
Pratt	Woodland Hills ...	Ruggles.....	Grade..	740

DEPARTMENT OF PUBLIC WORKS.

TABLE No. 20.—Continued.

Name of Street.	From Street.	To Street.	Improvement.	Length in Feet.
Pratt.....	Woodland Hills.....	East end.....	Sewer.....	1,195
Prim.....	Clark.....	Storer.....	Grade.....	2,600
Prospect.....	Erie.....	Brownell.....	Pave.....	1,265
Purdy.....	Walworth.....	Lorain.....	Sewer.....	1,430
Quebec.....	Oakdale.....	Donn.....	Pave.....	700
Rau.sey.....	L. S. & M. S. R'y.....	Detroit.....	Sewer.....	1,892
Randall.....	Bridge.....	Harbor.....	Pave.....	1,040
Republic place.....	Republic.....	West end.....	Sewer.....	360
Richland.....	Central.....	Quincy.....	Pave.....	950
Ridge.....	Lorain.....	Denison.....	Re-pave.....	3,840
Robert.....	Barton.....	Selden.....	Sewer.....	503
Rose.....	Bridge.....	Jay.....	Pave.....	231
Rowley.....	Jennings.....	Merchant.....	Sewer.....	990
Russell.....	Superior.....	Wade Park.....	Sewer.....	1,150
Sayles.....	Cedar.....	Quebec.....	Pave.....	1,750
Scott.....	Detroit.....	Bridge.....	Pave.....	1,640
Scovill.....	Erie.....	Willson.....	Sewer.....	8,505
Shaw.....	Ridge.....	East end.....	Sewer.....	450

TABLE No. 20.—Continued.

Name of Street.	From Street.	To Street.	Improvement.	Length in Feet.
Sherwood.....	Ambler.....	McCurdy.....	Grade.....	450
Simon.....	Woolsey.....	Ansel.....	Sewer.....	990
Slater.....	Quincy.....	South of Woodland.....	Pave.....	2,850
Sophia.....	Wilhe'm.....	Woodland.....	Grade.....	900
St. Clair.....	Water.....	C., C., C. & St. L.....	Pave.....	480
St. Clair.....	Wason.....	Lawrence.....	Sewer.....	930
Steinway.....	South Woodland.....	Woodland Hills.....	Pave.....	1,350
Stoneman.....	Kinsman.....	Southerly.....	Pave.....	1,000
Stoneman.....	Kinsman.....	Southerly.....	Sewer.....	1,000
Streator.....	Cedar.....	Quebec.....	Paye.....	1,760
Superior.....	Spring.....	Cuyahoga river.....	Pave.....	500
Svoboda.....	Forest.....	Easterly.....	Sewer.....	885
Talbot.....	Amesbury.....	Ansel.....	Sewer.....	605
Taylor.....	Detroit.....	Lorain.....	Pave.....	3,040
Tennessee.....	L. S. & M. S. R'y.....	Detroit.....	Sewer.....	1,720
Thurman.....	College.....	Literary.....	Sewer.....	462
Titus.....	Seranton.....	East View.....	Sewer.....	650
Tod.....	Francis.....	Union.....	Sewer.....	5,600

TABLE NO. 20.—Continued.

Name of Street.	From Street.	To Street.	Improvement.	Length in Feet.
Train.....	Burton.....	Clark.....	Sewer.....	4,040
Trumbull alley.....	Trumbull.....	Forest.....	Pave.....	1,060
Valentine.....	Scranton.....	East View.....	Sewer.....	865
Vanek.....	Fort.....	Kinsman.....	Grade.....	2,400
Valley.....	Harvard.....	Finney.....	Sewer.....	735
Vienna.....	Cedar.....	South end.....	Pave.....	1,650
Wade avenue.....	Pearl.....	Rhodes.....	Pave.....	1,005
Wade Park.....	Norwood.....	Anndale.....	Pave.....	11,655
Wade Park.....	Dunham.....	Norwood.....	Sewer.....	275
Ware.....	Detroit.....	L. S. & M. S. R'y.....	Grade.....	1,000
Wendell.....	Broadway.....	Southerly.....	Pave.....	485
West Clinton.....	Watterson.....	Easterly.....	Grade.....	758
West Clinton.....	Gordon.....	Waverly.....	Pave.....	1,005
West Madison.....	Waverly.....	Gordon.....	Pave.....	1,060
Whitman.....	Woodbine.....	Harbor.....	Pave.....	1,670
Wilhelm.....	Holton.....	Sophia.....	Sewer.....	1,100
Willson.....	St. Clair.....	Lake View.....	Pave.....	1,930
Willson.....	Bower.....	Broadway.....	Pave.....	4,610

TABLE No. 20.—Concluded.

Name of Street.	From Street.	To Street.	Improvement.	Length in Feet.
Woodbine.....	Fulton.....	Randall.....	Paye.....	1,720
Woodland.....	Eagle.....	Cross.....	Sewer.....	1,475
Woodland Hills.....	Miles.....	Broadway.....	Paye.....	573
Zoeter.....	Dunham.....	Giddings.....	Grade.....	1,275

Total number of streets.....	184
Total length in feet.....	265,498
Total length in miles.....	50.28

TABLE NO. 21.
SIDEWALK GRADES GIVEN IN 1897.

Name of Street.	From Street.	To Street.	Length.
Bazetta.....	Willard.....	445 feet northerly.....	445
Bertram.....	Central.....	Quincy..	2,016
Birch.....	No. 219.....	No. 227	400
Bismarck.....	South Woodland.....	Holton.....	2,818
Carabelli	Car barns.....	Mayfield.....	2,205
Carton.....	Woodland Hills.	Easterly.....	2,038
Conover	West Madison.....	Southerly.....	1,552
Decker.....	Genesee.....	Seedle.....	639
East Madison.....	C. & P. Ry.....	N. Y., C. & St. L. Ry.....	482
Ellen	Gordon.....	Emma.....	1,466
Fairbanks	Kinsman	Colfax....	774
Fir.....	Waverly.....	Gordon	1,980
Fleet.....	Ledyard..	Westerly.....	715
Franklin.....	West Roy.....	Lohengrin	166
Froas.....	Burton	Easterly	286
Grand Army court.....	Pearl.....	Easterly end.....	800

TABLE No. 21.—Concluded.

Name of Street.	From Street.	To Street.	Length.
Genesee.....	Gale.....	Superior.....	1,742
Gibbs.....	Dille.....	Martin.....	644
Hudson.....	Doan	Easterly end.....	1,600
Merkle	St. Clair.....	Northerly.....	1,400
McHenry.....	Payne.....	Mason.....	2,260
Redell	East Madison.....	Seedle ..	2,316
Ritchie	Storer.....	Denison	2,994
Rosedale	Superior.....	Beulah	600
Rutland.....	Kinsman	Trenton.....	732
Sawyer	Harvard.....	Miles Park.....	1,060
Sharon.....	Kinsman	Colfax.....	780
Skinner	Fleet.....	Tremont.....	2,400
South Willson.....	Fleet.....	Orey.....	2,800
West Clinton.....	Gordon.....	Watterson.....	1,176
Woodland.....	N. Y., C. & St. L. Ry.....	Woodland Hills.....	3,185
Woolsey.....	Donald.....	Pulaski.....	600
Woolsey	Crumb.....	Northerly.	1,400

34 streets, 46,844 feet — 8.87 miles.

TABLE No. 22.
ELECTRICAL SUBWAYS AND CONDUITS.

Company.	Style of Conduits.	Lineal Feet Subway, 1897.	Lineal Feet Pipe Put Down in 1897.	Total Length of Subway in City.	Total Lineal Feet of Pipe in the City.
Western Union Telegraph Co.....	3-inch wrought iron.....	1,822	3,322	8,897	18,965
Postal Telegraph Co.....	3-inch wrought iron.....	.....	.....	14,326	69,305
Cleveland Electric Illuminating Co.....	4½-inch terra cotta.....	8,941	174,562	58,176	245,797
Cleveland Electric Illuminating Co.....	1-inch to 3-inch iron pipe.....	6,235	6,235	.....	.....
Cleveland Telephone Co.....	4½-inch terra cotta.....	14,219	81,156	95,532	659,783
Home Telephone Co.....	4½-inch terra cotta.....	4,471	31,064	15,740	116,347
American District Telegraph Co.....	3-inch wrought iron.....	.....	.....	5,000	5,000
Totals.....	.....	35,688	296,339	191,836	1,117,362

TABLE No. 22.--Concluded.

MAPS MADE SHOWING ELECTRICAL CONDUITS, SUBWAYS AND MANHOLES IN THE
FOLLOWING TERRITORY TO DECEMBER 31, 1897.

Sheet Number.	From	To	Between	And
1	Center Street.....	Viaduct	South Water Street	Merwin Street.
2	Superior Street.....	St. Clair Street	Water Street	Seneca Street.
3	St. Clair Street ...	Front Street.....	Water Street	Seneca Street.
4	Superior Street.....	St. Clair Street	West Side Monumental Court...	Case Place.
5	South Side Monumental Court ..	Prospect Street.....	Diebolt Place.....	Oak Place.
6	Euclid Avenue	Prospect Street.....	Erie Street	Oak Place.
7	Superior Street.....	St. Clair Street	Wood Street.....	Erie Street.
8	Euclid Avenue	High Street.....	Middle and Sheriff Streets	Bond Street.
9	Ontario Street	Sheriff Street.....	High Street.....	Bolivar Street.
10	Eagle Street.....	Central Avenue.....	Ontario Street.....	Woodland Avenue.

DEPARTMENT OF PUBLIC WORKS.

Report of the Inspector of Gas.

Report of Inspector of Gas.

Hon. George R. Warden, Director of Public Works :

I have the honor to submit the annual report of the Inspector of Gas, for the year 1897.

During the year, some apparatus has been purchased and the municipal gas laboratory with a few additional pieces of apparatus will be complete.

The City Ordinance, No. 2632, reads: It shall be the duty of the Inspector of Gas to make semi-weekly photometric and other tests of such gas, and to keep a record of the pressure, quality and candle power of the same.

The following determinations and tests are made in the examination of gas, candle power, quantity of sulphur and ammonia, percentages of carbon dioxide, illuminants, oxygen, carbon monoxide hydrogen, methane and nitrogen.

CANDLE POWER.

The gas furnished to the consumers of Cleveland, must not be of less than 18 candle light power i. e., of such a quality, that a burner consuming 5 feet thereof, per hour, at a pressure not exceeding $\frac{2}{10}$ of an inch, at the photometric burner shall give a light of not less than 18 standard sperm candles, each consuming 120 grains of sperm per hour.

The test for candle power shall be made at places not more than one mile distant from the gas works.

TABLE NO. 1.

CANDLE POWDER OF THE GAS OF THE CLEVELAND
GAS LIGHT & COKE CO.

Week Ending.	Candle Power.	Week Ending.	Candle Power.	Week Ending.	Candle Power.	Week Ending.	Candle Power.
January 2....	18.43	April 3.....	18.67	July 10.....	19.68	October 9....	18.54
" 9....	18.58	" 10.....	18.52	" 17.....	18.92	" 16....	18.86
	18.38		18.84		19.53		18.99
" 16....	19.63	" 17.....	18.91	" 24.....	19.44	" 23....	19.16
	19.71		18.83		19.33		20.31
" 23....	19.40	" 24.....	18.35	" 31.....	19.60	" 30....	21.38
	19.27		18.78		20.50		19.37
" 30....	19.08	" 31.....	18.62	August 7....	19.90	Nov. 6.....	19.09
	18.81		18.88		18.99		18.96
February 6..	18.59	May 8.....	18.43	" 14....	19.56	" 13.....	18.71
	18.23		18.72		19.10		18.10
" 13....	18.57	" 15.....	19.27	" 21....	18.89	" 20.....	18.53
	19.29		20.68		20.10		18.42
" 20....	19.67	" 22.....	19.71	" 28....	19.31	" 27.....	18.96
	19.43		19.07		18.98		19.47
" 27....	19.15	" 29.....	18.27	Sept. 4.....	18.74	Dec. 4.....	19.23
	18.77		18.77		19.21		19.69
March 6.....	18.65	June 12.....	18.48	" 11.....	18.93	" 11.....	19.94
	18.12		19.11		18.63		19.43
" 13....	18.26	" 19.....	18.73	" 18.....	18.23	" 18.....	19.12
	18.76		18.39		18.62		18.76
" 20....	18.46	" 26.....	18.71	" 25.....	18.89	" 25.....	18.72
	18.54		19.09		19.06		19.45
" 27....	18.65	July 3.....	18.53	October 2....	18.74	" 31.....	19.27
	18.79		18.42		18.37		19.64
April 3	18.33	" 10.....	19.21	" 9....	18.63		

TABLE No. 2.
CANDLE POWER OF THE GAS OF THE CLEVELAND
GAS LIGHT AND COKE CO.

Month.	Average Candle Power.	Maximum.	Minimum.	Number of Observations.
January	19.03	19.71	18.38	9
February	18.96	19.67	18.23	8
March	18.51	18.79	18.12	9
April	18.71	18.91	18.35	9
May	19.10	20.68	18.27	8
June	18.72	19.11	18.39	7
July	19.40	20.50	18.42	9
August	19.28	20.10	18.74	9
September	18.79	19.21	18.23	8
October	19.29	21.38	18.37	9
November	18.74	19.47	18.10	9
December	19.34	19.94	18.72	9

Average for the year, 18.99 candle power.

SULPHUR IN THE GAS.

Sulphur is considered an impurity of gas and is therefore reduced to as low a percentage as possible by the gas companies.

The quantity of sulphur is limited in many cities to 20 grains per 100 cubic feet, but Cleveland has not set any limit.

For the determination of sulphur the Drehscmidt method is used.

This method with an absorption tube for the air supply containing an oxidizing liquid can be said to be the nearest to perfection of any method. It is simple, requires but little attention and does not generate an excessive quantity of heat.

The method used in England is the Referee's method, which is crude and does not according to many experts who have thoroughly examined it, determine all the sulphur.

The compound of sulphur, known as hydrogen sulphide, is detected by placing a strip of paper moistened with lead acetate in the gas stream issuing from a burner tip for a minute.

A coloration proves the presence of hydrogen sulphide. If this simple test does not show its presence it is considered as being removed.

Sulphur exists in Cleveland gas mostly in the form of sulphides of the hydro-carbons.

TABLE NO. 3.

SULPHUR IN THE GAS OF THE CLEVELAND GAS
LIGHT & COKE CO.

Week Ending.	Grains of Sulphur.	Week Ending.	Grains of Sulphur.	Week Ending.	Grains of Sulphur.	Week Ending.	Grains of Sulphur.
January 2....	17.50	April 3.....	19.43	July 10.....	19.00	Oct. 9.....	22.54
“ 9....	17.22	“ 10.....	19.24	“ 17.....	19.07	“ 16.....	23.28
	17.32		19.35		18.52		29.63
“ 16....	16.05	“ 17.....	19.67	“ 24.....	17.88	“ 23.....	25.40
	15.98		19.95		18.65		25.98
“ 23....	18.84	“ 24.....	20.09	“ 31.....	19.11	“ 30.....	30.64
	17.39		19.96		21.98		28.71
“ 30....	20.79	“ 31.....	18.70	Aug. 7.....	24.28	Nov. 6.....	27.94
	20.60		18.39		27.36		29.42
February 6...	20.22	May 8.....	18.46	“ 14.....	26.31	“ 13.....	26.53
	19.56		18.64		25.52		25.76
“ 13....	19.35	“ 15.....	20.14	“ 21.....	22.95	“ 20.....	23.48
	19.61		22.05		25.07		23.73
“ 20....	19.43	“ 22.....	20.83	“ 28.....	27.32	“ 27.....	22.94
	19.69		21.33		23.49		23.51
“ 27....	17.91	“ 29.....	20.21	Sept. 4.....	26.33	Dec. 4.....	22.72
	17.55		19.72		27.75		23.43
March 6.....	19.35	June 12.....	19.14	“ 11.....	23.45	“ 11.....	24.07
	18.79		19.37		25.58		21.73
“ 13....	19.03	“ 19.....	20.42	“ 18.....	23.73	“ 18.....	21.83
	18.74		19.93		23.70		22.35
“ 20....	20.91	“ 26.....	19.81	“ 25.....	23.06	“ 25.....	24.72
	21.15		19.57		22.12		24.33
“ 27....	19.49	July 3.....	18.22	Oct. 2.....	25.49	“ 31.....	24.67
	18.39		18.64		17.41		22.78
April 3.....	19.11	“ 10.....	19.50	“ 9.....	23.04		

TABLE NO. 4.
AVERAGE AMOUNT OF SULPHUR BY MONTHS,
CLEVELAND GAS LIGHT & COKE CO.

Month.	Grains of Sulphur.	Maximum.	Minimum.	Number of Tests.
January.....	17.91	20.79	16.05	9
February.....	19.16	20.22	17.55	8
March.....	19.41	20.91	18.39	9
April.....	19.42	20.09	18.70	9
May.....	20.17	22.05	18.46	8
June.....	19.49	20.42	18.22	7
July.....	19.15	21.98	18.52	9
August.....	25.40	27.36	22.95	9
September.....	24.36	27.75	22.12	8
October.....	25.74	30.64	17.41	9
November.....	25.11	29.42	22.72	9
December.....	23.32	24.72	21.73	9

Average for the year, 21.55 grains per 100 cubic feet.

AMMONIA COMPOUNDS.

Ammonia is considered an impurity of gas and has for this reason been determined semi-weekly.

If the gas is not washed thoroughly ammonia is always found in considerable quantities.

The quantity of ammonia allowed in the gas in different cities varies from 2 to 10 grains per 100 cubic feet.

As ammonia has a market value and its removal is comparatively easy, the quantity of ammonia found is always below the lowest standard, i. e., 2 grains of ammonia per 100 cubic feet of gas.

TABLE NO. 5.

AMMONIA COMPOUNDS IN THE GAS OF THE CLEVELAND GAS LIGHT & COKE CO.

Week Ending.	Grains of Ammonia.	Week Ending.	Grains of Ammonia.	Week Ending.	Grains of Ammonia.	Week Ending.	Grains of Ammonia.
Jan. 2.....	.0	April 3.....	.005	July 10.....	.105	Oct. 9.....	.389
" 9.....	.0	" 10.....	.004	" 17.....	.078	" 16.....	.322
	.0		.006		.126		.252
" 16.....	.006	" 17.....	.006	" 24.....	.264	" 23.....	.242
	.006		.007		.417		.372
" 23.....	.011	" 24.....	.008	" 31.....	.727	" 30.....	.367
	.007		.007		.185		.292
" 30.....	.0	" 31.....	.005	Aug. 7.....	.282	Nov. 6.....	.236
	.0		.005		.197		.211
Feb. 6.....	.009	May 8.....	.008	" 14.....	.239	" 13.....	.234
	.010		.007		.155		.297
" 13.....	.016	" 15.....	.281	" 21.....	.141	" 20.....	.223
	.017		.314		.209		.456
" 20.....	.018	" 22.....	.346	" 28.....	.232	" 27.....	.352
	.014		.364		.165		.419
" 27.....	.004	" 29.....	.262	Sept. 4.....	.217	Dec. 4.....	.278
	.005		.165		.135		.169
March 6.....	.004	June 12.....	.210	" 11.....	.555	" 11.....	.091
	.004		.300		.477		.073
" 13.....	.004	" 19.....	.140	" 18.....	.374	" 18.....	.082
	.004		.170		.341		.055
" 20.....	.004	" 26.....	.230	" 25.....	.299	" 25.....	.067
	.004		.180		.465		.094
" 27.....	.004	July 3.....	.110	Oct. 2.....	.853	" 31.....	.073
	.005		.090		.415		.052
April 3.....	.005	" 10.....	.103	" 9.....	.236		

CHEMICAL ANALYSIS OF THE GAS.

A complete analysis of the gas manufactured by the Cleveland Gas Light Company has been made semi-weekly.

A very fair idea of the quality of a gas can be gained from a chemical analysis.

The illuminants comprise the light-giving portions of the gas.

Carbon monoxide gives to water gas its poisonous properties but in coal gas it exists in much smaller percentage.

A large quantity of oxygen, together with a high percentage of nitrogen indicates the presence of air in the gas.

Nitrogen in well-managed gas works is invariably kept below 6%.

TABLE No. 6.

ANALYSIS OF GAS OF THE CLEVELAND GAS LIGHT
AND COKE COMPANY.

Week Ending.	Per cent. of Illuminants.	Per cent. of Carbon Dioxide.	Per cent. of Carbon Monoxide.	Per cent. of Oxygen.	Per cent. of Hydrogen.	Per cent. of Methane.	Per cent. of Nitrogen.
January 2.....	6.4	1.6	6.9	.7	35.44	45.67	3.29
“ 9.....	6.3	1.6	7.1	.6	35.52	45.03	3.85
	6.1	1.9	7.4	.6	35.43	44.80	3.77
“ 16.....	5.6	1.7	7.9	.6	36.05	43.33	4.82
	6.1	1.6	8.2	.5	35.72	42.96	4.92
“ 23.....	5.9	1.7	7.7	.7	36.71	44.02	3.27
	6.1	1.9	7.2	.7	36.89	44.65	2.58
“ 30.....	5.37	1.59	7.21	.57	37.84	42.84	4.58
	5.71	1.74	7.32	.50	35.39	47.52	1.81
February 6.....	5.68	1.60	7.48	.40	35.24	47.38	2.20
	5.83	1.64	7.29	.44	36.57	44.93	3.30
“ 13.....	5.90	1.70	7.11	.40	38.76	43.15	2.98
	5.83	1.72	7.26	.30	37.04	45.80	2.05
“ 20.....	5.51	1.79	7.71	.71	37.48	41.89	4.88
“ 20.....	5.94	1.81	7.43	.57	36.38	43.16	4.71
“ 27.....	5.97	1.68	7.73	.62	35.94	41.45	6.61
	5.83	1.54	7.52	.57	36.15	44.18	4.21
March 6.....	5.56	1.60	7.09	.70	36.75	46.00	2.35
	5.71	1.63	7.07	.54	36.66	46.25	2.14
“ 13.....	5.61	1.66	7.34	.40	37.14	46.33	1.52
	5.29	1.60	8.21	.61	36.84	43.98	3.47
“ 20.....	5.80	1.60	8.22	.40	35.00	43.34	5.63
	5.49	1.90	7.27	.89	36.94	44.25	3.26
“ 27.....	5.70	1.64	7.31	.53	36.42	44.87	3.53
	5.92	1.71	7.57	.48	37.18	43.93	3.21

TABLE No. 6.—Continued.

Week Ending.	Per cent. of Illuminants.	Per cent. of Carbon Dioxide.	Per cent. of Carbon Monoxide.	Per cent. of Oxygen.	Per cent. of Hydrogen.	Per cent. of Methane.	Per cent. of Nitrogen.
April 3.....	5.48	1.40	7.35	.79	37.86	41.03	6.07
	5.47	1.34	7.45	.71	38.01	41.03	5.99
" 10.....	4.89	1.40	7.48	1.00	37.56	42.91	4.76
	5.29	1.45	7.56	.63	37.43	42.10	5.54
" 17.....	5.41	1.30	7.65	.60	37.71	41.67	5.66
	5.33	1.42	7.27	.54	37.11	42.37	5.76
" 24.....	5.32	1.34	7.35	.49	37.51	43.34	4.65
	5.46	1.47	7.53	.57	37.32	42.72	4.93
" 31.....	5.51	1.80	7.42	.53	31.91	43.75	5.50
	5.58	1.71	7.55	.48	36.53	42.93	5.22
May 8.....	5.95	2.00	7.39	.50	35.41	43.33	5.42
	5.31	1.78	7.46	.57	35.59	43.64	5.65
" 15.....	6.00	1.80	7.66	.77	37.65	40.81	5.31
	5.30	1.50	7.76	.80	36.96	43.77	3.77
" 22.....	5.74	1.61	7.53	.65	35.99	45.03	3.42
	5.29	1.81	7.70	.79	36.89	43.64	3.88
" 29.....	5.78	2.20	7.52	.79	35.86	44.02	3.83
	5.71	1.94	7.42	.63	36.23	44.10	3.97
June 12.....	5.75	1.81	7.21	.65	36.54	43.83	4.21
	5.81	1.65	7.42	.71	37.18	42.94	4.65
" 19.....	5.64	2.01	7.33	.54	36.04	44.02	4.42
	5.71	1.73	7.54	.61	35.63	43.57	5.21
" 26.....	5.83	1.84	7.45	.79	36.02	43.00	5.07
	5.72	1.68	7.62	.72	37.00	42.09	5.17
July 3.....	5.91	1.77	7.51	.82	36.31	42.57	5.11
	5.86	1.82	7.46	.89	36.41	42.91	4.65
" 10.....	5.93	1.49	7.97	.45	34.09	44.98	5.09
	5.81	1.63	7.64	.74	34.99	44.48	4.71

TABLE No. 6.—Continued.

Week Ending.	Per cent. of Illuminants.	Per cent. of Carbon Dioxide.	Per cent. of Carbon Monoxide.	Per cent. of Oxygen.	Per cent. of Hydrogen.	Per cent. of Methane.	Per cent. of Nitrogen.
July 17	5.91	1.80	8.38	.79	34.19	43.75	5.18
	5.86	1.59	8.16	.51	34.21	44.41	5.26
" 24	5.99	1.61	9.43	.69	32.88	44.14	5.26
	6.07	1.69	8.54	.53	33.97	43.61	5.59
" 31	6.17	1.72	7.92	.71	34.06	44.00	5.42
	6.21	1.6	7.83	.62	34.52	43.79	4.16
August 7.....	6.27	1.27	7.32	.85	35.46	44.10	4.73
	6.39	1.49	6.94	.72	36.08	43.34	5.02
" 14.....	6.57	1.29	7.51	.84	35.43	43.40	4.96
	6.44	1.70	7.23	.78	36.16	43.27	4.42
" 21.....	6.43	1.62	7.11	.43	36.36	43.07	4.98
	6.19	1.54	7.43	.79	35.80	43.36	4.89
" 28.....	6.61	1.10	7.41	.80	36.27	43.20	4.61
	6.52	1.43	6.81	.61	36.59	43.79	4.25
September 4.....	6.27	1.21	7.24	.62	35.91	43.56	5.19
	6.11	1.35	7.35	.57	36.44	43.31	4.87
" 11... ..	5.20	1.00	6.43	.40	36.71	44.69	5.57
	5.20	1.10	6.35	.30	37.23	43.97	5.85
" 18.....	5.60	1.20	8.31	.70	38.14	41.04	5.01
	5.34	1.42	6.81	.53	37.56	43.09	5.25
" 25... ..	5.47	1.31	7.27	.49	37.25	43.02	5.19
	5.71	1.13	6.63	.67	36.87	43.62	5.34
October 2.....	5.18	1.27	7.32	.55	36.79	43.51	5.38
	5.34	1.19	7.76	.38	36.58	43.61	5.14
" 9.....	5.21	1.12	7.09	.64	36.46	43.39	6.03
	5.52	1.28	7.64	.53	37.07	42.24	5.72
" 16.....	5.77	1.21	7.42	.64	35.42	45.01	4.53
	5.66	1.37	7.53	.70	36.43	43.20	5.11

TABLE No. 6.—Concluded.

Week Ending.	Per cent. of Illuminants.	Per cent. of Carbon Dioxide.	Per cent. of Carbon Monoxide.	Per cent. of Oxygen.	Percent. of Hydrogen.	Percent. of Methane.	Percent. of Nitrogen.
October 23.....	5.74	1.54	7.56	.75	36.09	43.02	5.30
	5.95	1.43	7.21	.63	37.48	42.09	5.21
“ 30.....	6.11	1.45	7.64	.59	37.13	41.35	5.73
	5.89	1.61	7.89	.48	36.14	42.71	5.48
November 6.....	5.73	1.39	7.75	.72	36.31	42.53	5.57
	5.75	1.53	7.76	.81	36.48	42.42	5.25
“ 13.....	5.58	1.74	7.48	.76	37.39	41.21	5.84
	5.64	1.47	7.53	.84	37.00	40.02	5.50
“ 20.....	5.69	1.56	7.71	.87	36.51	42.24	5.42
	5.73	1.62	7.39	.68	36.28	43.17	6.13
“ 27.....	5.79	1.35	7.54	.73	36.51	42.03	5.97
	5.81	1.46	7.47	.91	37.52	41.11	5.72
December 4.....	5.90	1.65	7.53	.84	36.47	42.03	5.58
	5.92	1.43	7.46	1.02	37.10	41.05	6.02
“ 11.....	6.00	1.30	7.86	.88	36.55	43.19	4.22
	5.78	1.40	7.72	.87	36.74	42.30	5.19
“ 18.....	6.32	1.37	7.53	.74	37.06	42.11	4.87
	6.24	1.32	7.82	.68	36.14	43.21	4.59
“ 25.....	5.65	1.43	7.61	.56	37.04	43.02	4.69
	5.93	1.28	7.70	.79	37.51	42.36	4.43
“ 31.....	5.83	1.22	7.48	.71	36.51	43.43	4.82
	5.94	1.29	7.61	.67	37.09	42.85	4.55

TABLE NO. 7.
VAPOR BURNERS.

Fifty street vapor burners are tested each month to determine the candle power of the burners for that month. The contract with the lighting company specifies that the average candle power of the 50 burners tested must be equal to that of 14 standard sperm candles and for every candle power less than 14 a 6% deduction is made in the compensation received by the company. The following table shows the results of the monthly tests:

Month.	Average Candle Power.	Per Cent. above 14 Candle Power.	Per Cent. below 14 Candle Power.	Month.	Average Candle Power.	Per Cent. above 14 Candle Power.	Per Cent. below 14 Candle Power.
January	15.72	72	28	July	17.73	88	12
February	15.00	58	42	August	13.81	50	50
March	11.58	22	78	September.....	11.26	32	68
April	12.07	38	62	October.....	13.82	46	54
May	9.89	10	90	November	15.23	62	38
June.....	11.54	32	68	December.....	17.56	68	32

Average for year 13.76 candle power.

METER INSPECTION.

Upon the written application of any consumer of gas made to the Director of Public Works and accompanied by an inspection fee of \$1, the meter is disconnected and taken to the laboratory of the Inspector to be tested.

The consumer is supplied with another meter during the time required for the inspection.

If the meter, upon inspection, shall be found fast or that it registers a greater volume of gas than actually passes it the inspection fee is returned to the person making the application.

If the meter is found to register no greater volume of gas than passes it, the gas company shall receive 50 cents of the fee for disconnecting and re-setting the meter, and the other 50 cents shall be paid into the City Treasury.

Five meters have been tested during the year with the following results:

Correct, 1.8% slow; 2% slow; 1% slow; .35% fast.

PRESSURE ON STREET MAINS.

The pressure on the street mains on both sides of the river is recorded constantly.

The pressure on the east side of the river varies from 1.1 to 1.5 inches during the day, and from 1.4 to 1.7 at night.

On the west side of the river the pressure during the day varies from 1.6 to 2 inches, and during the night from 2 to 2.5 inches.

The pressure is measured by a pressure register corrected by a siphon pressure gauge.

In the determinations of sulphur made in the city laboratory the average for the year is above 20 grains per 100 cubic feet of gas.

It is probable that the gas at the City Hall comes mainly from Gas Works No. 1 on Front street.

I have found it inconvenient and somewhat inaccurate to make a determination or any tests of gas on a sample of gas which has been carried in tanks to the laboratory and there tested.

To determine the sulphur in the gas, for instance, from Works No. 2, situated at the foot of Willson avenue, it would be necessary to carry the sulphur apparatus to the place selected and there make the determination of sulphur.

Apparatus for doing gas work of any kind is always expensive and is easily broken, and it follows that in order to do reliable analyses of gas from any gas works we should have apparatus permanently located near each works.

To cover the city satisfactorily several additional pieces of apparatus are absolutely necessary, and I cannot recommend too strongly that the needed apparatus be purchased soon.

Respectfully submitted,

CHAS. G. SNYDER,

Inspector of Gas.

JANUARY 8, 1898.

DEPARTMENT

OF

POLICE.

Division of Police.

E. A. ABBOTT, Director of Police.

JOHN VANEK, Secretary.

GEORGE E. CORNER, Superintendent.

A. S. GATES, Deputy Superintendent.

M. F. MADIGAN,	}	.	.	Captains 1st District.
E. W. BRADLEY,				
E. K. HUTCHINSON,	.	.	.	Captain 2d District.
MICHAEL ENGLISH,	.	.	.	Captain 3d District.
W. S. ROWE,	.	.	.	Captain 4th District.
J. J. LOHRER,	.	.	.	Captain of Detectives.
E. B. NORTON,	.	.	.	Police Surgeon.

REPORT
OF THE
Director of the Department of Police
OF THE
CITY OF CLEVELAND.

CLEVELAND, January 1, 1898.

To the Honorable Robert E. McKisson, Mayor:

SIR:—In accordance with law, I have the honor to submit herewith my Annual Report of the Department of Police, including the Divisions of Police and Public Health, Markets, Hay Weighers and City Sealer, and the condition of the several funds and accounts for the year ending December 31, 1897.

The reports of the heads of the various divisions will give in detail the condition of such divisions.

The total expenditures of the Division of Police during the year, as shown in detail by the report of the Secretary of Police hereto appended, were \$397,922.55, of which sum \$363,746.56 was paid for salaries of the Force and \$1,260.00 for the pound-keepers; \$2,592.67 for new buildings; \$1,164.22 for furniture; \$864.90 for horses; \$3,524.04 for horse feed, shoeing, wagons and harness; \$1,908.27 for patrol service and apparatus; \$3,001.29 for repairs to buildings and \$19,860.60 for all other expenditures of the Departments, as rent, interest, stationery and office supplies, fuel, light, water, miscellaneous supplies, telegrams, secret service, equipments, and other incidental expenses.

The amount thus expended was paid as follows:

From the Police Fund.....	\$392,218	15
From the Contingent Fund.....	3,241	26
From the Police Court Fund.....	2,463	14
Total.....	\$397,922	55

The total number of arrests made was 14,481, against 13,491 for the previous year, being an increase of 990.

By authority of the Council the Force has been increased, on January 5th, 1897, by the appointment of twenty additional Patrolmen, one Captain and two Lieutenants; twenty-nine vacancies of Patrolmen, caused by death, resignations, dismissals and retirement were filled.

During the year the following promotions were made: Seven Patrolmen were promoted to Sergeants, and one detailed as Detective; three Sergeants were promoted to Lieutenants, and one detailed as Detective; one Lieutenant as Captain.

One Patrolmen died, four Patrolmen resigned, six Patrolmen were dismissed from the Force and one Lieutenant, one Detective three Sergeants and four Patrolmen were retired from active service and were placed on the Police Pension Roll.

Complaints and charges were preferred against thirty-seven officers for violation of the following rules: Neglect of duty, 21; intoxication while on duty, 2; intoxication while off duty, 4; conduct unbecoming an officer, 4; unnecessary violence to prisoners, 3; giving away police secrets, 1; feigning sickness, 1, and absence without leave, 1.

The disposition of the above charges was as follows: Acquitted, 3; resigned pending charges, 2; reprimanded, 3; fined \$5.00, 2; fined \$10.00, 14; fined \$20.00, 1; fined \$25.00, 5; and discharged from the Force, 6.

Again your attention is called to the fact that the efficiency of the Force is greatly impaired for want of more patrolmen, and an increase of at least one hundred is an imperative necessity. This number will no more than meet the just and reasonable demand of citizens in various parts of the city for better police protection.

I would also recommend the extension of the Police Patrol System in the Third and Fourth Districts and the erection and equipment of two additional Patrol Stations in the Third and Fifth Police Precincts.

Your attention is respectfully called to the reports herewith submitted of the Superintendent of Police, containing much valuable statistical information, Secretary of Police as to the financial matters and changes in the Force, and of the heads of

the several branches of the Department, which contain detailed statements of the performance of the duties, which they have in charge respectively.

In conclusion I desire to express my satisfaction and appreciation of the conscientious and efficient services rendered by the officers and men of the Force in the discharge of their duties.

Very respectfully,

E. A. ABBOTT,

Director of Police.

Report of the Secretary of Police.

Capt. E. A. Abbott, Director of Police :

SIR :—I herewith submit the following report of the Resources and Disbursements of the several funds, also the different changes in the Force for the year ending December 31, 1897.

Respectfully,

JOHN VANEK,

Secretary of Police

DEPARTMENT OF POLICE.

POLICE FUND.

RESOURCES.		
Balance January 1, 1897.....		\$ 3,211 25
Tax levy.....	\$220,114 48	
Liquor tax.....	145,694 19	
Cigarette tax.....	1,181 99	
Transfer from Market Fund.....	20,000 00	
Transfer from Interest Fund.....	5,250 00	
From Poundkeepers.....	107 40	
For rents.....	\$25 00	
From sales.....	58 51	
		392,731 57
Total		\$395,942 52
DISBURSEMENTS.		
Salaries of the Police Force.....	\$ 63,746 56	
Salaries of Poundkeepers.....	1,260 00	
New buildings.....	129 53	
For permanent improvements and fixtures.....	6,128 40	
For all other claims.....	20,953 66	
Total		392,218 15
Balance January 1st, 1898		\$ 3,724 67

DEPARTMENT OF POLICE.

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POLICE COURT FUND.

RESOURCES.	Police Court.	Workhouse	
Balance January 1st, 1897.....			\$2,814 46
Fines and costs collected in Police Court and at the Workhouse:			
January.....	\$ 793 75	\$ 99 70	
February.....	845 45	49 60	
March.....	1,089 25	26 85	
April.....	1,173 60	107 50	
May.....	6,374 25	127 05	
June.....	3,827 10	112 15	
July.....	2,260 15	168 90	
August.....	2,481 10	129 75	
September.....	2,466 35		
October.....	2,238 25	319 05	
November.....	2,028 90	109 00	
December.....	2,177 85	180 85	
	\$27,756 00	\$1,430 40	\$29,186 40
Total.....			\$32,000 86
DISBURSEMENTS.			
Salaries of court officers.....	\$14,958 53		
Interim salaries.....	66 60		
Witness and juror fees.....	1,426 50		
Contingent expenses.....	1,664 64		
Furniture and fixtures.....	243 86		
Renovating offices.....	492 44		
Transporting prisoners.....	480 00		
New buildings.....	2,493 77		
Repairs.....	73 89		
Fees to police pension and contingent funds.....	6,578 35		
Total.....			\$28,478 58
Balance January 1, 1898.....			\$3,522 28

DEPARTMENT OF POLICE.

CONTINGENT FUND.

RESOURCES.		
Balance January 1, 1897.....		\$ 7,380 96
Marshal fees in Police Court, city cases.....	\$ 2,821 57	
" " " " state cases.....	801 76	
" " Criminal Court.....	601 16	
		4,224 49
Total		\$11,605 45
DISBURSEMENTS.		
Advanced to Director of Police for secret service and Contingent expenses:		
January 28	250 00	
February 4	250 00	
February 26.....	250 00	
April 8.....	250 00	
April 22.....	250 00	
May 22.....	250 00	
June 28.....	250 00	
July 28	250 00	
August 27.....	250 00	
October 25.....	250 00	
November 9.....	250 00	
December 13.....	250 00	
December 29.....	100 00	
Total		\$ 3,100 00
Balance January 1st, 1898.....		\$ 8,505 45

	Repairs of Buildings.	New Buildings.	Grading, Paving and Sewering and Taxes.	Laundry Work.	Telegrams and Secret Service.	Livery.	Meals of Prisoners.	Equipments.	Incidentals.	Total.
88	\$ 274 09	\$... ..	\$ 192 03	\$ 160 52	\$ 69 30	\$.....	\$ 358 93	\$.....	\$ 120 72	\$ 4,046 10
64	7 00	.....	.....	34 50	.....	.....	4 04	.....	35 09	422 79
12	62 35	... ..	47 04	41 00	4 50	.....	45	.....	19 00	446 58
81	161 37	1,956 67	172 20	31 00	1 40	.....	.....	.....	33 14	3,174 13
10	8 08	636 00	73 55	33 71	4 20	.....	.....	.....	21 57	1,460 54
15	771 39	.....	49 00	21 93	8 85	.....	.....	.....	23 23	1,283 95
..	564 65	.....	98 00	24 00	.....	.....	.....	.....	12 51	1,093 75
21	743 96	... ..	117 19	52 52	4 95	.....	.....	.....	60 39	2,515 33
57	80 81	.....	.....	28 05	.....	.....	.....	.....	13 11	329 85
04	39 94	.....	.....	16 72	.....	.....	3 05	.....	15 50	409 64
58	81 17	.....	.....	22 00	1 30	.....	.....	.....	15 89	508 10
67	58 04	.....	20 00	20 49	.....	.....	.....	.....	7 67	593 94
99	100 09	.....	1 75	9 00	.....	.....	.....	.....	11 23	1,931 56
80	.....	.....	.....	9 00	.....	.....	.....	.....	14 87	925 44
11	8 15	.....	.....	9 00	.....	.....	.....	.....	8 82	562 38
06	.....	.....	10 00	6 30	.....	.....	.....	.....	21 76	1,007 52
24	6 70	.....	.....	6 62	.....	.....	.....	.....	78	467 61
59	.....	.....	.....	.....	.....	.....	.....	.....	4 88	2,170 83
67	.....	.....	.....	.....	103 24	.....	.....	.....	25 85	247 26
16	12 00	.....	.....	.....	119 30	4 50	.....	730 20	830 74	4,025 19
..	21 50	.....	.....	.....	.....	.....	.....	.....	.....	1,303 50
..	.....	.....	.....	.....	.....	.....	.....	.....	.....	5,250 00
..	363,746 56
39	\$3,001 29	\$2,592 67	\$ 780 76	\$ 526 36	\$ 317 04	\$ 4 50	\$ 366 47	\$ 730 20	\$1,296 69	\$397,922 55

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**EXPENDITURES PAID FROM THE DIFFERENT FUNDS
FOR POLICE PURPOSES.**

MONTHS.	Police Fund.	Police Court Fund.	Contingent Fund.	Total.
January	\$ 15,507 27	\$1,380 50	\$ 506 00	\$ 17,393 77
February	31,523 07	881 14	212 82	32,617 03
March.	32,825 08	.....	265 55	33,090 63
April	34,476 21	.....	316 60	34,792 81
May.	32,736 95	162 50	305 33	33,204 78
June.....	32,390 75	.....	188 37	32,579 12
July	31,519 32	39 00	305 44	31,863 76
August	32,334 59	.....	143 52	32,478 11
September.....	33,389 49	.....	200 78	33,590 27
October.....	33,350 64	.....	218 99	33,569 63
November	31,966 48	.....	194 96	32,161 44
December	50,198 30	.....	382 90	50,581 20
Total	\$392,218 15	\$2,463 14	\$3,241 26	\$397,922 55

CLOTH ACCOUNT.

RESOURCES.		
Balance January 1st, 1897		\$ 916 59
Sold 505 $\frac{5}{8}$ yards of summer cloth.....	\$1,011 25	
“ 275 $\frac{1}{8}$ “ doeskin	785 12	
“ 285 $\frac{1}{8}$ “ beaver	969 58	
“ 222 $\frac{1}{8}$ “ dress cloth	795 52	
“ 129 helmets	322 50	
“ 174 yards of gold lace	69 05	
“ 1408 blue service stripes	112 64	
		4,065 66
Total		\$4,982 25
DISBURSEMENTS.		
Paid for 542 yards of summer cloth.....	\$961 91	
“ 281 $\frac{1}{8}$ “ doeskin	730 56	
“ 277 $\frac{1}{8}$ “ beaver	864 69	
“ 229 $\frac{1}{8}$ “ dress cloth	803 25	
“ 150 black helmets	375 00	
“ 14 white helmets.....	32 90	
“ 34 gr. buttons and wreaths.....	226 50	
“ 243 yards gold lace.....	99 55	
“ 1900 blue service stripes.....	148 96	
“ express charges	41 20	
“ stationery and miscellaneous.....	37 10	
Cloth free to officers.	14 00	
Total		4,335 62
Balance January 1st, 1898		\$ 646 63

CLOTH ACCOUNT.—Concluded.

CLOTH ON HAND.		
39½ yards of summer cloth.	\$ 79 50	
32 " doeskin.	88 00	
4½ " beaver.	15 30	
18½ " dress cloth.	69 37	
48 black helmets.	120 00	
14 white helmets.	32 90	
32 yards of gold lace.	8 00	
404 blue service stripes.	32 32	
4 gr. large buttons.	18 00	
8½ gr. small buttons.	21 25	
		\$ 484 64
Total in cloth fund January 1st, 1898.		\$1,131 27

DEPARTMENT OF POLICE.

MARKET FUND.

RESOURCES.			
Balance January 1st, 1897.			\$ 3,024 29
Market rents, premiums, etc.....		\$38,049 65	
Licenses.....		14,833 00	
Hay Weighers.....		2,435 75	
City Sealer		2,734 97	
Miscellaneous.....		17 62	58,070 99
Total			\$61,095 28
DISBURSEMENTS.			
MARKETS—Rents	\$ 58 99		
Salaries	8,400 00		
Furniture and fixtures	108 67		
Stationery	71 82		
Fuel.....	103 35		
Lighting.....	2,876 95		
Sprinkling	929 00		
Miscellaneous supplies	143 60		
Repairs.....	795 11		
Contingent expenses ..	228 95		
Cleaning grounds	1,315 85		
Taxes, grading, etc ..	7 15		
Transfer to Police Fund.....	20,000 00		
Transfer to Fire Fund.....	5,000 00		
Transfer to Street Fund.....	15,000 00		
Livery.....	300 00	\$55,339 44	
HAY WEAHERS—Salaries	\$2,040 00		
Fuel.....	7 95		
Repairs and cleaning grounds.....	126 60		
Grading and improving.....	234 01	\$2,408 56	
CITY SEALER—Salaries	\$2,100 00		
Stationery.....	41 75		
Livery.....	300 00	\$2,441 75	
Total expenses			\$60,189 75
Balance January 1st, 1898.			\$905 53

HAY WEIGHERS.

Receipts and Disbursements in 1897.

RECEIPTS.		
Central hay scales.....	\$1,906 25	
Scale, corner Lorain and Harbor streets.....	322 25	
Scale, corner Pearl and Willey streets	90 75	
Scale, at the 27th Ward	116 50	
Total		\$2,435 75
DISBURSEMENTS.		
Salaries of Weighers:		
Central hay scale weigher.	\$900 00	
Central hay scale assistant.....	600 00	
Corner Lorain and Harbor streets weigher....	240 00	
Corner Pearl and Willey streets weigher.....	180 00	
27th Ward weigher	120 00	
Contingent expenses	368 56	
Total.		2,408 56
Receipts over disbursements.....		\$ 27 19

CITY SEALER.

Receipts and Disbursements in 1897.

RECEIPTS.		
Total amount received for sealing weights and measures.....	.....	\$ 2,734 97
DISBURSEMENTS.		
Salaries of City Sealer and Assistant.....	\$ 2,100 00	
Horse and wagon for City Sealer.....	300 00	
Contingent expenses	41 75	
		\$ 2,441 75
Receipts over Disbursements.....	.....	\$ 293 22

POLICE FORCE

On the first day of January, 1897, as appears from the last report, the Police Force of the city, including all other employes of the Department, consisted of 1 Superintendent, 1 Deputy Superintendent, 1 Secretary, 1 Police Surgeon, 5 Captains, 22 Lieutenants, 9 Detectives, 17 Sergeants, 273 Patrolmen, 5 Janitors, 2 Firemen, 1 Operator, 4 Matrons, 1 Lineman and 2 Hostlers; total, 347.

The total number of men constituting the Police Force at date is 355, and all other employes of the Department, 17; total, 372, viz :

- 1 Superintendent.
- 1 Deputy Superintendent.
- 1 Secretary.
- 1 Police Surgeon.
- 6 Captains.
- 24 Lieutenants.
- 9 Detectives.
- 17 Sergeants.
- 295 Patrolmen.
- 6 Janitors.
- 2 Firemen.
- 1 Operator.
- 1 Lineman.
- 4 Matrons.
- 2 Hostlers.
- 1 Messenger.

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Of the 295 Patrolmen, 1 is detailed as Superintendent of Patrol Service, 2 as Operators and 1 as Lineman.

DEPARTMENT OF POLICE.

This Force and Officers are distributed for duty in the different places and Precincts throughout the city as follows:

DIRECTOR OF POLICE, ROOM 119, CITY HALL.

Location.	OFFICERS.										EMPLOYEES.							
	Superintendent.	Deputy Superintendent.	Secretary.	Police Surgeon.	Captains.	Detectives.	Lieutenants.	Sergeants.	Patrolmen.	Total.	Janitors.	Firemen.	Operator.	Lineman.	Hostlers.	Matrons.	Messenger.	Total.
1st Precinct	1	1	.....	.....	3	9	2	3	72	91	4	2	.....	.....	.....	3	1	10
2d Precinct.....	2	1	18	21	.....	.....	.....	.....	.....	.....	.....	.....
3d Precinct.....	2	1	19	22	1	.....	.....	.....	.....	.....	.....	1
4th Precinct.	1	.....	2	1	18	22	.....	.....	.....	.....	.....	.....	.....	.....
5th Precinct.	2	1	15	18	.....	.....	.....	.....	.....	.....	.....	.....
6th Precinct.	1	.....	2	1	14	18	.....	.....	.....	.....	.....	.....	.....	.....
7th Precinct.	2	1	12	15	.....	.....	.....	.....	.....	.....	.....	.....
8th Precinct.	1	.....	2	2	32	37	1	.....	.....	.....	.....	1	.....	2
9th Precinct.	1	2	18	21	.....	.....	.....	.....	.....	.....	.....	.....
10th Precinct....	2	1	15	18	.....	.....	.....	.....	.....	.....	.....	.....
11th Precinct....	2	1	19	22	.....	.....	.....	.....	.....	.....	.....	.....
12th Precinct....	2	1	9	12	.....	.....	.....	.....	.....	.....	.....	.....
Patrol Stations..
No. 1	6	6	.....	.....	.....	.....	2	.....	.....	2
No. 2	6	6	.....	.....	.....	.....	.....	.....	.....	.....
No. 3	6	6	.....	.....	.....	.....	.....	.....	.....	.....
No. 4	6	6	.....	.....	.....	.....	.....	.....	.....	.....
No. 5	6	6	.....	.....	.....	.....	.....	.....	.....	.....
Patrol operators.	4	4	.....	.....	1	1	.....	.....	.....	2
Headquarters....	1	1	.....	.....	1	1	.....	4	.....	.....	.....	.....	.....	.....	.....	.....
Total	1	1	1	1	6	9	24	17	295	355	6	2	1	1	2	4	1	17

THE FORCE ON DECEMBER 31, 1897.

Rank.	Name.	Nativity.	First Entry into Service under Metropolitan Law.
Superintendent.....	George E. Corner.....	United States.....	April 20, 1880.
Deputy Superintend'nt	A. S. Gates.....	United States.....	November 13, 1871.
Secretary.....	John Vanek.....	Bohemia.....	July 1, 1887.
Surgeon.....	F. B. Norton	United States	September 13, 1887.
Captain.....	E. K. Hutchinson	United States.....	April 12, 1876.
"	M. F. Madigan	Ireland.....	May 1, 1866.
"	W. S. Rowe.....	United States.....	May 18, 1880.
"	M. English	Ireland.....	April 8, 1871.
"	Ed W. Bradley.....	United States.....	April 29, 1875.
"	J. J. Lohrer	Germany	May 1, 1866.
Lieutenant	Conrad Koch	Germany	May 30, 1866.
"	John Shriber	United States.....	April 6, 1870.
"	S. Kushman.....	United States.....	April 25, 1867.
"	Thomas Thompson	England.....	May 15, 1867.
"	Josiah Johnson.....	United States.....	July 19, 1871.
"	John Dunn.....	United States.....	December 30, 1870.
"	George Kadel.....	Germany	April 29, 1870.
"	George W. Broadwell.....	United States.....	April 14, 1877.
"	P. A. Searles	United States.....	November 2, 1871.
"	Jacob Stein.....	Germany	July 18, 1866.
"	John Burns	Ireland	May 8, 1868.
"	Charles Tressel.....	Germany	November 29, 1869.
"	John O'Laughlin	Ireland	February 12, 1873.
"	E. T. Granger	United States. ...	September 7, 1871.
"	Wm. Jenkins... ..	England	January 20, 1882.
"	Patrick Corkill	Ireland.....	April 13, 1869.
"	John Schmunk	United States.....	January 15, 1881.
"	Fred Kohler.....	United States.....	July 16, 1889.
"	J. W. Varner.....	United States.....	January 21, 1878.
"	Hugh Masterson.....	United States.....	August 7, 1883.
"	Silas Pierce.....	United States.....	April 22, 1886.
"	N. A. Shattuck.....	United States.....	July 16, 1889.
"	H. T. Felhaber	Germany	April 6, 1877.
"	M. F. Wood	United States.....	May 20, 1877.

DEPARTMENT OF POLICE.

THE FORCE ON DECEMBER 31, 1897.—Continued.

Rank.	Name.	Nativity.	First Entry into Service under Metropolitan Law.
Detective	John Reeves....	Ireland.....	May 13, 1875.
"	A. McMillan	Canada	February 23, 1872.
"	John F. Sprosty.....	Bohemia.....	November 6, 1872.
"	James Doran	Canada	April 15, 1884.
"	L. A. DeCelle....	United States....	March 1, 1881.
"	C. E. Parker.....	United States. ...	December 28, 1882.
"	Chas. O. Klane	United States....	May 2, 1882.
"	Wm. Watt.....	Scotland.....	May 18, 1886.
"	D. G. Stanton	United States....	January 7, 1892.
Sergeant.....	John Buechler.....	Germany	May 1, 1872.
"	M. J. Regan.....	Ireland	June 6, 1882.
"	J. J. Doyle	Canada.....	June 6, 1882.
"	Ed. Corrigan.....	Ireland.....	August 9, 1887.
"	E. F. Washington	United States....	August 7, 1883.
"	James Cullen.....	Ireland.....	August 7, 1884.
"	Thomas Commerford	Ireland.....	December 31, 1886.
"	August Brandt.....	Germany	April 12, 1886.
"	Alfred Walker.....	England.....	June 29, 1886.
"	Fred Doering.....	United States....	March 6, 1888.
"	M. M. McElhany.....	United States....	May 4, 1866.
"	John Rowlands.....	United States. ...	January 7, 1892.
"	Wm. Schneider.....	Germany	June 3, 1881.
"	Geo. A. Kadel.....	United States. ...	June 3, 1886.
"	J. M. Brooks	Germany	May 4, 1880.
"	Fred. Fischer.....	Germany	December 20, 1887.
"	Herman Prange.....	Germany	January 19, 1886.
Patrolman No. 1.....	Jerry Murphy ...	United States....	April 15, 1890.
" 2.....	P. F. Reed.....	United States....	May 3, 1897.
" 3.....	Joseph Stadler	Germany	September 16, 1876.
" 4.....	Henry Kiel.....	Germany	July 16, 1892.
" 5.....	J. W. Clark.....	United States....	May 20, 1884.
" 6.....	Charles S. Smith	United States....	January 28, 1897.
" 7.....	W. C. Dettman.....	Germany	January 1, 1896.
" 8.....	Geo. B. Erwin... ..	United States....	April 19, 1881.

THE FORCE ON DECEMBER 31, 1897.—Continued.

Rank.	Name.	Nativity.	First Entry into Service under Metropolitan Law.
Patrolman No. 9.....	Charles Reppenhagen	Germany.....	January 7, 1892.
.. 10.....	Philip Siegrist.....	Germany.....	May 8, 1888.
.. 11.....	M. Ostermeyer.....	Germany.....	August 7, 1867.
.. 12.....	F. C. Patmore.....	United States	May 3, 1897.
.. 13.....	Leo J. Kolaszewski.....	Poland.....	May 8, 1888.
.. 14.....	Wm. D. Jones.....	Wales.....	June 18, 1889.
.. 15.....	C. C. Thomas.....	United States.....	September 21, 1872.
.. 16.....	John Veigel.....	United States.....	December 27, 1884.
.. 17.....	John T. Shibley.....	Canada.....	January 1, 1896.
.. 18.....	Charles W. Sterling.....	United States.....	January 1, 1896.
.. 19.....	W. B. Clendenin.....	United States.....	October 1, 1897.
.. 20.....	Michael Fergus.....	United States.....	September 11, 1888.
.. 21.....	E. C. Meon.....	United States.....	July 10, 1893.
.. 22.....	Joseph O'Brien.....	Ireland.....	December 28, 1882.
.. 23.....	Wm. Mylechraine.....	Isle of Man.....	February 23, 1872.
.. 24.....	Frank Grime.....	United States.....	February 12, 1891.
.. 25.....	Henry Jacobson.....	Germany.....	May 8, 1888.
.. 26.....	Henry C. Brown.....	United States.....	May 16, 1896.
.. 27.....	P. J. Neary.....	Ireland.....	April 17, 1888.
.. 28.....	E. Hathaway.....	United States.....	April 20, 1872.
.. 29.....	James Hanley.....	Ireland.....	April 22, 1886.
.. 30.....	W. N. Sickels.....	United States.....	December 1, 1897.
.. 31.....	Thomas J. Carlen.....	United States.....	March 9, 1892.
.. 32.....	Jeffrey Gibbons.....	United States.....	January 16, 1894.
.. 33.....	W. T. Schempp.....	United States.....	July 11, 1896.
.. 34.....	Matthew Mareth.....	Bohemia.....	January 13, 1885.
.. 35.....	W. R. Hayman.....	England.....	May 1, 1888.
.. 36.....	J. W. Morgan.....	Wales.....	February 12, 1891.
.. 37.....	Mathew Conway.....	United States.....	May 7, 1888.
.. 38.....	Jacob Fix.....	United States.....	January 5, 1897.
.. 39.....	John Cummings.....	Canada.....	March 25, 1889.
.. 40.....	Robert Madison.....	United States.....	May 3, 1897.
.. 41.....	G. H. Fechner.....	United States.....	January 16, 1894.
.. 42.....	E. Durchschlag.....	United States.....	December 7, 1896.

DEPARTMENT OF POLICE.

THE FORCE ON DECEMBER 31, 1897.—Continued.

Rank.	Name.	Nativity.	First Entry into Service under Metropolitan Law.
Patrolman No. 43.....	Charles N. Lyle	Canada.....	May 8, 1888.
" 44.....	Wm. Reiser	United States.....	May 3, 1897.
" 45.....	Wm. M. Tucker	United States.....	June 3, 1881.
" 46.....	Frank G. Ganss	United States.....	April 6, 1895.
" 47.....	Samuel Ruddock.....	Ireland	June 16, 1892.
" 48.....	Charles Saunders.....	England	January 19, 1886.
" 49.....	Joseph Ruzicka	Bohemia	September 15, 1892.
" 50.....	Daniel Mack	Ireland	October 17, 1882.
" 51.....	James Trojan	Bohemia.....	July 16, 1892.
" 52.....	Fred. Metzermacher.....	United States.....	September 28, 1896.
" 53.....	Thos. Cleary.....	Ireland	April 6, 1892.
" 54.....	A. A. Heimburger.....	United States	July 22, 1893.
" 55.....	Thos. Martinec.....	Bohemia.....	October 17, 1892.
" 56.....	Charles Sanders	Germany	February 18, 1887.
" 57.....	Edward L. Banks	United States	December 1, 1896.
" 58.....	Julius Weber.....	Germany	October 1, 1897.
" 59.....	Joseph F. Spurney	United States.....	January 13, 1897.
" 60.....	P. J. Carbeck.....	United States.....	August 1, 1882.
" 61.....	John C. Kampfe.....	United States	November 20, 1883.
" 62.....	Warren O. Quayle.....	United States	July 10, 1893.
" 63.....	John Reiber.....	United States.. .	January 7, 1892.
" 64.....	H. W. Motter.....	United States.....	May 14, 1884.
" 65.....	John Sprankle	Germany.	November 26, 1874.
" 66.....	August Sommer	Germany	December 24, 1883.
" 67.....	Leonard M. Wooden.....	United States.....	July 22, 1897.
" 68.....	John Quinn	Ireland	May 16, 1871.
" 69.....	Fred Wagner.....	United States	December 26, 1892.
" 70.....	J. H. Koehler	United States.....	May 4, 1886.
" 71.....	Jay Cole.....	United States.....	July 16, 1892.
" 72.....	Henry Carroll	Ireland	June 15, 1886.
" 73.....	A. E. Lacey	United States.....	March 9, 1894.
" 74.....	T. H. Bidlingmeyer	United States	March 6, 1888.
" 75.....	F. H. Brooks	United States	July 22, 1884.
" 76.....	W. Chapman	United States	January 19, 1896.

DEPARTMENT OF POLICE.

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THE FORCE ON DECEMBER 31, 1897.—Continued.

Rank.	Name.	Nativity.	First Entry into Service under Metropolitan Law.
Patrolman No. 77.....	George A. Strief.....	United States.....	January 7, 1892.
" 78.....	Martin Reddy.....	Ireland.....	September 18, 1883.
" 79.....	Patrick Hines.....	United States.....	February 26, 1889.
" 80.....	C. B. Lee.....	United States.....	February 12, 1891.
" 81.....	James J. Gill.....	Ireland.....	January 22, 1896.
" 82.....	John Ginnelly.....	Ireland.....	February 12, 1891.
" 83.....	Joseph Curphy.....	United States.....	January 7, 1892.
" 84.....	F. B. Eustace.....	United States.....	April 19, 1875.
" 85.....	Walter P. Carey.....	United States.....	January 5, 1897.
" 86.....	Paul Weis.....	Germany.....	March 21, 1896.
" 87.....	J. Horazdovsky.....	Bohemia.....	July 19, 1894.
" 88.....	Daniel Cantilion.....	Ireland.....	January 29, 1875.
" 89.....	John Britton.....	Ireland.....	December 24, 1883.
" 90.....	L. J. Pillars.....	United States.....	July 16, 1892.
" 91.....	Frank L. Blackmur.....	United States.....	January 28, 1892.
" 92.....	M. F. Silsby.....	United States.....	March 26, 1873.
" 93.....	J. H. Robinson.....	United States.....	July 10, 1893.
" 94.....	Patrick Kennedy.....	Ireland.....	June 10, 1875.
" 95.....	Henry Kramer.....	United States.....	December 24, 1883.
" 96.....	James Reddy.....	England.....	June 6, 1894.
" 97.....	Henry Seibel.....	United States.....	February 5, 1873.
" 98.....	Joseph Ralph.....	Ireland.....	May 8, 1888.
" 99.....	Chas. L. Seelye.....	United States.....	January 5, 1897.
" 100.....	Geo. J. Moore.....	United States.....	June 1, 1897.
" 101.....	Burton Holcomb.....	United States.....	October 8, 1889.
" 102.....	Frank McDonnell.....	United States.....	October 7, 1884.
" 103.....	Frank Kulas.....	Bohemia.....	May 16, 1878.
" 104.....	Frank E. King.....	United States.....	February 6, 1896.
" 105.....	Charles McMasters.....	United States.....	November 27, 1878.
" 106.....	Harry Morgan.....	United States.....	February 6, 1895.
" 107.....	Charles Dangler.....	United States.....	April 9, 1877.
" 108.....	Lewis C. Ruggles.....	United States.....	January 7, 1892.
" 109.....	T. J. Gallagher.....	Ireland.....	June 5, 1888.
" 110.....	John F. Chaffin.....	United States.....	May 3, 1897.

THE FORCE ON DECEMBER 31, 1897.—Continued.

Rank.	Name.	Nativity.	First Entry into Service under Metropolitan Law.
Patrolman No. 111.....	Patrick Farragher.....	Ireland.....	February 26, 1889.
" 112.....	John J. McTigue.....	United States.....	October 1, 1892.
" 113.....	Stewart Hart.....	Canada.....	November 13, 1883.
" 114.....	John McGraw.....	Ireland.....	April 6, 1877.
" 115.....	Wm. O'Brien.....	Ireland.....	January 13, 1873.
" 116.....	Ernst A. Bleasdale.....	United States.....	September 18, 1888.
" 117.....	W. C. Davis.....	Wales.....	December 1, 1897.
" 118.....	Philip Hæge.....	Germany.....	February 5, 1873.
" 119.....	James H. Stedman.....	Canada.....	July 1, 1895.
" 120.....	Henry A. Kerr.....	United States.....	July 16, 1892.
" 121.....	M. H. Stofer.....	United States.....	February 5, 1873.
" 122.....	Geo. Kaestle.....	United States.....	February 6, 1896.
" 123.....	Wm. Schnearline.....	United States.....	November 16, 1874.
" 124.....	Geo. W. Immel.....	United States.....	July 16, 1892.
" 125.....	D. J. Heffron.....	United States.....	July 1, 1894.
" 126.....	Charles Schröder.....	United States.....	November 27, 1873.
" 127.....	Austin G. Peschman.....	United States.....	November 16, 1897.
" 128.....	M. Cuneen.....	Ireland.....	July 3, 1883.
" 129.....	Thomas Mylett.....	Ireland.....	January 7, 1892.
" 130.....	John McCabe.....	Ireland.....	July 2, 1883.
" 131.....	Ralph Lehman.....	Germany.....	April 1, 1894.
" 132.....	L. E. Bouker.....	United States.....	February 12, 1891.
" 133.....	Henry Hageman.....	United States.....	July 13, 1886.
" 134.....	E. R. Bennett.....	United States.....	November 7, 1882.
" 135.....	John Carroll.....	Ireland.....	November 7, 1882.
" 136.....	J. A. Abernethy.....	United States.....	July 1, 1894.
" 137.....	John Gavin.....	Ireland.....	November 3, 1885.
" 138.....	Parker Hare.....	United States.....	November 7, 1882.
" 139.....	Wm. H. Scott.....	United States.....	February 7, 1895.
" 140.....	Alfred Smith.....	England.....	July 10, 1893.
" 141.....	Geo. J. Keidel.....	United States.....	July 10, 1883.
" 142.....	Michael O'Hara.....	United States.....	August 7, 1883.
" 143.....	Joseph Whittaker.....	United States.....	November 13, 1883.
" 144.....	John J. Connell.....	United States.....	December 20, 1887.

DEPARTMENT OF POLICE.

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THE FORCE ON DECEMBER 31, 1897.—Continued.

Rank.	Name.	Nativity.	First Entry into Service under Metropolitan Law.
Patrolman No. 145....	S. S. Minor	United States.....	August 7, 1883.
" 146....	H. L. Wilmore	United States	January 7, 1892.
" 147....	C. J. Creter.....	Germany.	August 7, 1883.
" 148....	W. W. Mackey.	United States.....	January 7, 1892.
" 149....	Patrick Ruddy	Ireland	August 7, 1883.
" 150....	Leonard Cummiskey	United States	February 26, 1889.
" 151....	James E. Harrington.....	United States	January 23, 1895.
" 152....	Wm. R. Wilson	Canada	January 7, 1892.
" 153....	F. E. Brown.....	United States.....	February 21, 1888.
" 154....	W. T. Mehan.....	United States.....	December 1, 1894.
" 155....	Herman C. Kritzel	United States.....	May 3, 1897.
" 156....	Carl A. DeHeck	United States	October 20, 1897.
" 157....	Chas. L. Weisbarth.....	United States	March 20, 1888.
" 158....	Richard Barrow, Jr.....	United States	February 18, 1887.
" 159....	Wm. Fitzgerald	United States	August 7, 1883.
" 160....	John E. Gallagher	United States	July 17, 1888.
" 161....	August Wedig.....	Germany.	August 7, 1883.
" 162....	Frank Purma	Bohemia	December 5, 1892.
" 163....	John Noonan.....	Ireland	October 3, 1894.
" 164....	A. McKnight.....	United States	August 7, 1883.
" 165....	James Jirele.....	Bohemia	January 16, 1894.
" 166....	Thomas Patterson	Canada	January 5, 1897.
" 167....	Joseph Sweeney.....	Ireland	August 21, 1883.
" 168....	Kinsy Fife	United States.....	June 14, 1887.
" 169....	Albert Hileman.....	United States	September 28, 1896.
" 170....	F. B. Sanford	United States.....	December 2, 1892.
" 171....	M. K. Cary.	United States	October 22, 1888.
" 172....	Frank V. Bash.....	Poland	June 21, 1887.
" 173....	M. Masterson.....	Ireland	January 11, 1887.
" 174....	C. L. Meacham	United States	January 11, 1887.
" 175 ...	John Anderson, Jr	United States	January 13, 1887.
" 176....	H. J. Simpson.....	United States	February 5, 1889.
" 177....	Alfred Malley.....	Ireland	January 7, 1892.
" 178....	John Shipp	England.	December 2, 1892.

DEPARTMENT OF POLICE.

THE FORCE ON DECEMBER 31, 1897.—Continued.

Rank.	Name.	Nativity.	First Entry into Service under Metropolitan Law.
Patrolman No. 179 ...	Wm. McAleer	United States.....	March 22, 1887.
" 180...	R. C. McDonnell	United States.....	March 15, 1887.
" 181....	Frank A. Kelly.....	United States.....	March 15, 1887.
" 182....	Thomas W. Whalen.....	United States	June 4, 1889.
" 183....	James Hilliard	Ireland	February 1, 1889.
" 184....	C. A. DeHondt.....	United States	February 1, 1889.
" 185....	Miles Moulton	United States	February 1, 1889.
" 186....	Thomas J. Hogan	Ireland	February 1, 1889.
" 187....	R Manning.....	United States	August 1, 1893.
" 188....	D. D. Seely.....	United States.....	February 1, 1889.
" 189 ...	J. E. Wade.	United States	February 1, 1889.
" 190....	Joseph C. Kaestle	United States.....	December 2, 1892.
" 191....	M. J. Howlett.....	United States.....	February 1, 1889.
" 192....	Wm. C. Sadler.	United States.....	January 7, 1892.
" 193....	James Collins	United States	February 1, 1889.
" 194....	Otto Jierle	United States	February 1, 1889.
" 195....	Thomas McGinty.....	United States.....	February 1, 1889.
" 196....	Fred Winchester	United States	February 1, 1889.
" 197....	Roland McReynolds.....	United States.....	January 7, 1892.
" 198....	N. I. Englehart	Germany	February 1, 1889.
" 199....	T. J. Comerford.....	United States	February 1, 1889.
" 200....	E. L. Potts.	United States	February 1, 1889.
" 201....	Rush J. Douglass.....	United States	January 28, 1892.
" 202....	H. A. Gerow.....	Canada	February 1, 1889.
" 203....	James Meehan	England	July 16, 1889.
" 204....	Patrick Connors.....	England	July 16, 1889.
" 205....	Ephraim Brown	United States	July 16, 1889.
" 206....	Myron S. Brown.....	United States	January 7, 1892.
" 207....	Wm. Madigan.....	United States	May 3, 1897.
" 208....	Wm. J. Thorpe.....	United States ...	July 16, 1889.
" 209....	F. J. Moore	Ireland	July 16, 1889.
" 210....	Edward E. Welch	United States.....	July 17, 1896.
" 211....	Michael Connors	United States.....	January 7, 1892.
" 212....	Albert Ritzi	United States	January 5, 1897.

DEPARTMENT OF POLICE.

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THE FORCE ON DECEMBER 31, 1897.—Continued.

Rank.	Name.	Nativity.	First Entry into Service under Metropolitan Law.
Patrolman No. 213....	Jacob Burghart.....	United States.....	July 16, 1889.
" 214....	M. Fitzgerald.....	United States.....	July 16, 1889.
" 215....	John J. Richards.....	United States....	July 16, 1889.
" 216....	P. J. Mylett.....	Ireland	July 16, 1889.
" 217....	Frank W. Smith.....	United States.....	July 1, 1895.
" 218....	Geo. W. Carey.....	United States.....	July 16, 1889.
" 219....	James J. Martin.....	United States,....	July 16, 1889.
" 220....	John E. Jones.....	United States.....	July 16, 1889.
" 221....	Michael Gallagher.....	Ireland.....	July 16, 1889.
" 222....	Peter E. Hill.....	United States.....	January 7, 1892.
" 223....	J. H. Kleinman	United States.....	July 16, 1889.
" 224....	J. E. Gannon.....	United States.....	July 16, 1889.
" 225....	Albert Isaac.....	Canada	July 16, 1889.
" 226....	Martin B. Bruder.....	Ireland.....	January 7, 1892.
" 227....	W. H. Mooney.....	England	July 16, 1889.
" 228....	J. M. Farr.....	United States.....	September 3, 1889.
" 229....	Joseph Kilbane	Ireland.....	July 16, 1889.
" 230....	Fred'k L. Schlegel.....	United States.....	March 18, 1895.
" 231....	Thomas Madden,.....	United States.....	July 16, 1889.
" 232....	Wm. L. Foulks.....	United States.....	January 7, 1892.
" 233....	Wm. O'Loughlin	United States.....	July 16, 1889.
" 234....	Michael Gilbride.....	United States.....	July 16, 1889.
" 235....	Wm. Bennett.....	Ireland.....	July 16, 1889.
" 236....	M. J. Dempsey.....	Ireland	July 16, 1889.
" 237....	E. J. Hannan	United States.....	July 16, 1889.
" 238 ...	Frank Hoenig.....	United States.....	July 16, 1889.
" 239....	Peter Regan.....	Ireland.....	July 16, 1889.
" 240....	E. W. Boulton.....	United States.....	July 16, 1889.
" 241....	J. M. Morgan.....	United States.....	July 16, 1889.
" 242....	Edward Bayton	England	July 16, 1889.
" 243....	Stephen Murphy.....	United States.....	January 23, 1895.
" 244....	Evan Corns.....	Wales.....	July 16, 1889.
" 245....	Martin Fitchen, Jr.....	United States.....	May 3, 1897.
" 246....	Wm. Guenther	United States.....	July 16, 1889.

THE FORCE ON DECEMBER 31, 1897.—Continued.

Rank.	Name.	Nativity.	First Entry into Service under Metropolitan Law.
Patrolman No. 247....	Charles H. Durfy	United States.....	July 16, 1889.
" 248....	Luke Delaney	United States.....	January 7, 1892.
" 249....	Maurice Donahue	United States.....	May 6, 1892.
" 250....	Chas. Shafranek	Bohemia.....	July 24, 1889.
" 251....	George Haldane.....	Scotland.....	March 25, 1893.
" 252....	Chas. Hawkins.....	United States.....	July 24, 1889.
" 253....	George M. Wolke	United States.....	July 11, 1896.
" 254....	Wm. C. Bernsee.....	United States.....	July 11, 1896.
" 255....	H. T. Fisher.....	England	July 11, 1896.
" 256....	Wm. G. Barrows	United States.....	July 11, 1896.
" 257....	John F. Jockers.....	United States.....	July 11, 1896.
" 258....	J. T. Saunders.....	United States.....	July 11, 1896.
" 259....	Louis W. Heid.....	United States.....	July 11, 1896.
" 260....	John F. Keller	United States.....	July 11, 1896.
" 261....	J. A. Conrad	United States.....	June 11, 1897.
" 262....	D. J. Ross	Canada	July 11, 1896.
" 263....	Wm. H. Mackey.....	United States.....	July 11, 1896.
" 264....	Charles H. Frary	United States.....	July 11, 1896.
" 265 ...	George C. Huberty.....	United States.....	July 13, 1896.
" 266....	Joseph Maresh	United States.....	July 11, 1896.
" 267....	Arthur Hopcraft	Eng'and	July 11, 1896.
" 268....	Wm. L. Chappell	United States.....	July 11, 1896.
" 269....	Geo. C. Heideloff	United States.....	July 11, 1896.
" 270....	Edward Hennie.....	United States.....	July 11, 1896.
" 271....	George McNab	Scotland.....	July 11, 1896.
" 272....	Albert R. Hinckley.....	United States.....	July 11, 1896.
" 273....	George E. Kent.....	United States.....	July 11, 1896.
" 274....	L. M. Badger.....	United States.....	July 11, 1896.
" 275....	James Bartunek.....	United States.....	July 11, 1896.
" 276....	Frank E. Texler.....	United States.....	January 5, 1897.
" 277....	J. C. Kniewaser	United States.....	November 16, 1897.
" 278....	Ira L. Allen.....	United States.....	January 5, 1897.
" 279....	Wm. F. Beyer.....	United States.....	January 5, 1897.
" 280....	Charles Pluess.....	United States.....	January 5, 1897.

THE FORCE ON DECEMBER 31, 1897.—Concluded.

Rank.	Name. .	Nativity.	First Entry into Service under Metropolitan Law.
Patrolman No. 281 ...	John P. Budinger	United States.....	January 5, 1897.
“ 282....	Jacob Graul.	United States	January 5, 1897.
“ 283....	Thos. McNeil.....	United States	January 5, 1899.
“ 284....	Arthur C. Sager	United States.....	January 5, 1897.
“ 285....	John M. Mehringer	United States.....	January 5, 1887.
“ 286....	Joseph Bernhard	United States.....	January 5, 1897.
“ 287....	Lynnus G. Corlett.....	United States.....	January 5, 1897.
“ 288....	Wm. Fischer	Germany	January 5, 1897.
“ 289....	Mark T. McGorray	United States....	January 5, 1897.
“ 290....	Henry G. Coath.....	United States.....	June 11, 1897.
“ 291....	August Senkbeil.....	Germany	January 5, 1897.
“ 292....	Wm. Smith.....	United States.....	October 1, 1897.
“ 293....	Wm. Silberg.....	United States.....	January 5, 1897.
“ 294....	Fred J. Lahl.....	United States.....	January 5, 1897.
“ 295....	Louis Sebelin.....	United States.....	January 5, 1897.

DEPARTMENT OF POLICE.

NATIONALITY OF MEMBERS OF THE POLICE FORCE.

BIRTH PLACE.	
United States.....	227
Ireland	49
Germany	31
England	14
Canada	13
Bohemia.....	11
Scotland	3
Poland.....	2
Isle of Man.....	1
Wales.	4
Total	355

DEPARTMENT OF POLICE.

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EMPLOYES OF THE DEPARTMENT.

Rank.	Name.	Appointed.	Remarks.
Operator	E. H. McLean.....	Aug. 1, 1883.....	Patrol service.
Janitor	Thos. A. Stephens.....	April 24, 1895...	Central Station.
Janitor	D. E. O'Leary.....	April 15, 1897....	Central Station.
Janitor	Chas. A. Black	April 23, 1896....	Central Station.
Janitor	John H. Cisco	May 15, 1895....	Third Precinct Station.
Janitor	Frank Rosinsky	Aug. 1, 1891.. ..	Eighth Precinct Station.
Janitor	J. L. Dilno	Nov. 3, 1897.....	Central Station.
Fireman	David Honeywell.....	May 1, 1895	Central Police Station.
Fireman.....	Frank Cohen	May 13, 1895....	Central Police Station.
Matron	Louise Love	March 23, 1897..	Central Police Station.
Matron.....	Harriet Garfield.....	March 1, 1894...	Central Police Station.
Matron.	Kate M. Kelley	Feb. 1, 1895.....	Central Police Station.
Matron	Sarah J. Whitaker	Feb. 1, 1895.....	Central Police Station.
Hostler.	Philip Holzworth.....	July 1, 1895.....	Patrol Station No. 1.
Hostler	M. Schneider	May 13, 1897....	Patrol Station No. 1.
Lineman.....	Frank Miner	April 14, 1897...	Patrol service.
Messenger	L. S. Bezema.	Oct. 13, 1897....	Police Court.

DEPARTMENT OF POLICE.

PROMOTIONS OF MEMBERS OF THE FORCE DURING THE YEAR.

Rank.	Name.	Promoted to	Date.
Sergeant.....	N. A. Shattuck.....	Lieutenant.....	January 5, 1897.
Sergeant.....	Chas. O. Klaue	Lieutenant.....	January 5, 1897.
Patrolman No. 207.	John Rowlands.....	Sergeant.....	January 5, 1897.
Patrolman No. 59..	Wm. Watt.....	Sergeant	January 5, 1897.
Detective.....	J. J. Lohrer	Sergeant.....	January 13, 1897.
Sergeant.....	J. J. Lohrer	Lieutenant.	January 14, 1897.
Lieutenant	J. J. Lohrer	Captain	January 15, 1897.
Sergeant.....	Wm. Watt.....	Detective.....	January 15, 1897.
Patrolman No. 110.	Wm. Schneider.	Sergeant.....	January 16, 1897.
Patrolman No. 155.	Geo A. Kadel	Sergeant	January 21, 1897.
Patrolman No. 40..	J. M. Brooks	Sergeant.....	February 6, 1897.
Sergeant.....	M. F. Wood	Lieutenant.....	July 20, 1897.
Patrolman No. 127.	Fred Fischer	Sergeant.....	July 20, 1897.
Patrolman No. 19..	D. J. Stanton.....	Detective.....	October 1, 1897.
Patrolman No. 58..	Herman Prange.....	Sergeant	October 1, 1897.

CHANGES DURING THE YEAR.

Sergeant William Watt, detailed as Detective, January 15, 1897, vice J. J. Lohrer, promoted.

Detective H. T. Felhaber, returned to regular duty as Lieutenant, January 15, 1897.

Lieutenant Chas. O. Klaue, detailed for detective duty, vice H. T. Felhaber, January 15, 1897.

Patrolman No. 19, D. G. Stanton, detailed for detective duty, vice A. A. Lawrence, retired, October 1, 1897.

RESIGNATIONS OF MEMBERS OF THE FORCE AND
EMPLOYES DURING THE YEAR.

Rank.	Name.	Date.
Matron	Mrs. Emma Essinger.....	March 22, 1897.
Janitor	B. H. Mead.....	April 15, 1897.
Patrolman No. 245.....	Adolph Schiminsky.....	May 1, 1897.
“ 261.....	Henry Phillips.....	May 13, 1897.
“ 290.....	R. R. Patterson.....	May 31, 1897.
“ 277.....	Thos. H. Freeman.....	November 8, 1897.

DISMISSED FROM THE FORCE DURING THE YEAR.

Rank.	Name.	Date.
Patrolman No. 67.....	P. M. Flick	July 21, 1897.
“ 292.....	John Daus.....	September 27, 1897.
“ 156.....	L. T. Fitzsimmons.....	October 14, 1897.
“ 30.....	Frank Dolan.....	November 13, 1897.
“ 127.....	Frank W. Doak.....	November 15, 1897.
“ 117.....	Jacob Rees	November 29, 1897.

OFFICERS PLACED ON THE PENSION ROLL.

Rank.	Name.	Appointed.	Retired.
Patrolman No. 6..	A. J. Marx.	September 14, 1870..	January 16, 1897.
Sergeant	W. D. McCready.....	March 6, 1878.	January 21, 1897.
Sergeant	G. F. Mog.....	August 3, 1881	February 6, 1897.
Patrolman No. 44 .	Christ Hennis	September 23, 1879..	April 22, 1897.
Patrolman No. 12 .	B. Rosenfelder	May 1, 1866.....	May 1, 1897.
Patrolman No. 100.	F. C. Lauser.....	November 23, 1872..	June 1, 1897.
Lieutenant	Geo. J. Griffin.....	July 12, 1870.....	July 20, 1897.
Detective.....	A. A. Lawrence	May 1, 1866.....	October 1, 1897.
Sergeant.....	J. C. Denzer.....	November 27, 1878..	October 1, 1897.

OFFICERS DIED DURING THE YEAR.

Rank.	Name.	Appointed.	Died.
Patrolman No. 2.....	Henry Brunner.....	March 11, 1882.....	April 9, 1897.

APPOINTMENTS OF MEMBERS OF THE FORCE DURING THE YEAR.

Name.	Date.	Rank.	No.	Age.	Nativity.	Former Occupation.	Social Condition.
Frank E. Texler.....	January 5, 1897.....	Patrolman.....	276	28	United States.....	Street car conductor..	Married.
Thomas H. Freeman	January 5, 1897.....	Patrolman.....	277	25	England	Motorman.....	Married.
Ira L. Allen.....	January 5, 1897.....	Patrolman.....	278	28	United States.....	Street car conductor..	Married.
Wm. F. Beyer.....	January 5, 1897.....	Patrolman.....	279	29	United States.....	Clerk	Single.
Charles Pluess.....	January 5, 1897.....	Patrolman.....	280	33	United States.....	Clerk.....	Single.
John P. Budinger.....	January 5, 1897.....	Patrolman.....	281	33	United States.....	Horseshoer	Married.
Jacob Gaul.....	January 5, 1897.....	Patrolman....	282	29	United States.....	Plumber.....	Married.
Thos. McNeil.....	January 5, 1897.....	Patrolman.....	283	29	United States.....	Clerk	Single.
Arthur C. Sager.....	January 5, 1897..	Patrolman.....	284	27	United States.....	Druggist.....	Married.
John M. Mehringer.	January 5, 1897.....	Patrolman.....	285	27	United States.....	Merchant.....	Married.
Joseph Bernhard.....	January 5, 1897.....	Patrolman.....	286	30	United States.....	Penitentiary guard....	Married.
Lynnus G. Corlett.	January 5, 1897.....	Patrolman.....	287	25	United States.....	Street car conductor..	Married.
Wm. Fischer	January 5, 1897.....	Patrolman.....	288	27	Germany	Cigarmaker.....	Married.
Mark T. McGorray.....	January 5, 1897.....	Patrolman.....	289	26	United States.....	Undertaker.....	Single.

APPOINTMENTS OF MEMBERS OF THE FORCE DURING THE YEAR.—Continued.

Name.	Date.	Rank.	No.	Age.	Nativity.	Former Occupation.	Social Condition.
R. R. Patterson	January 5, 1897.....	Patrolman.....	290	26	United States.....	Street car conductor..	Single.
August Senkbeil.....	January 5, 1897.....	Patrolman.....	291	26	Germany.....	Salesman.....	Married.
Wm. Silberg.....	January 5, 1897.....	Patrolman.....	293	27	United States	Workhouse guard.....	Single.
Fred J. Lahl	January 5, 1897.....	Patrolman.....	294	27	United States.....	Tinsmith	Single.
Louis Sebelin.....	January 5, 1897.....	Patrolman.....	295	26	United States.....	Bookbinder.....	Single.
Jacob Fix	January 5, 1897.....	Patrolman.....	38	30	United States.....	Butcher.....	Married.
Walter P. Carey.....	January 5, 1897.....	Patrolman.....	85	28	United States.....	Driver.....	Married.
Charles L. Seelye.....	January 5, 1897.....	Patrolman.....	99	27	United States	Street car conductor..	Married.
Thos. Patterson	January 5, 1897.....	Patrolman.....	166	29	Canada.....	Molder.	Married.
Albert Ritzl.....	January 5, 1897.....	Patrolman.....	212	26	United States.....	Wiredrawer.....	Married.
Joseph F. Spurney	January 13, 1897.....	Patrolman.....	59	31	United States.....	Clerk.....	Married.
Chas. S. Smith	January 28, 1897.....	Patrolman.....	6	28	United States	Waiter.....	Single.
P. F. Reed	May 3, 1897.....	Patrolman.....	2	26	United States.....	Bookkeeper	Single.
F. C. Patmore.....	May 3, 1897.....	Patrolman	12	32	United States.....	Photographer	Married.

APPOINTMENTS OF MEMBERS OF THE FORCE DURING THE YEAR.—Continued.

DEPARTMENT OF POLICE.

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Name.	Date.	Rank.	No.	Age.	Nativity.	Former Occupation.	Social Condition.
Robert Madison.....	May 3, 1897.....	Patrolman.....	40	31	United States.....	Collector	Married.
Wm. Reiser.....	May 3, 1897.....	Patrolman.....	44	31	United States.....	Rubber worker.....	Married.
John F. Chaffin.....	May 3, 1897.....	Patrolman.....	110	31	United States.....	Porter	Married.
Martin Fitchen, Jr.....	May 3, 1897.....	Patrolman.....	245	27	United States.....	Paver.....	Single.
L. T. Fitzsimmons.....	May 3, 1897.....	Patrolman.....	156	33	United States.....	S. machine worker ...	Married.
Wm. Madigan.....	May 3, 1897.....	Patrolman.....	207	29	United States.....	Gripman.....	Married.
Herman C. Kritzel	May 3, 1897.....	Patrolman.....	155	28	United States.....	Cigarmaker	Married.
John Daus.....	May 3, 1897.....	Patrolman.....	292	31	United States.....	Machinist.....	Married.
Geo. J. Moore.....	June 1, 1897.....	Patrolman.....	100	29	United States.....	Machinist.....	Single.
J. A. Conrad	June 11, 1897.....	Patrolman.....	261	31	United States.....	Barber.. ..	Married.
Henry G. Coath	June 11, 1897.....	Patrolman.....	290	30	United States. ...	Machine hand.....	Married.
Leonard M. Weeden.....	July 22, 1897.....	Patrolman.....	67	29	United States.....	Machinist	Single.
Frank W. Doak	July 22, 1897.....	Patrolman.....	127	29	United States.....	Bricklayer.....	Married.
Julius Weber.....	October 1, 1897.....	Patrolman.....	58	27	Germany	Carpenter	Married.

APPOINTMENTS OF MEMBERS OF THE FORCE DURING THE YEAR.—Concluded.

Name.	Date.	Rank.	No.	Age.	Nativity.	Former Occupation.	Social Condition.
Wm. B. Clendenin	October 1, 1897.....	Patrolman.....	19	32	United States.....	Lake captain	Married.
Wm. Smith.....	October 1, 1897.....	Patrolman.....	292	28	United States.....	Boilermaker.....	Married.
Carl A. DeHeck.....	October 20, 1897.....	Patrolman.....	156	27	United States.....	R. R. fireman	Married.
J. C. Kinewaser	November 16, 1897....	Patrolman.....	277	30	United States....	R. R. man.....	Married.
Austin G. Peschman	November 16, 1897....	Patrolman.....	127	26	United States.....	St. R. R. man	Married.
W. N. Sickels.	December 1, 1897.....	Patrolman.....	30	29	United States.....	Bridge builder.....	Married.
W. C. Davis	December 1, 1897.....	Patrolman.....	117	29	Wales.....	Iron worker	Married.

SALARIES OF THE MEMBERS OF THE POLICE DEPARTMENT.

	1897
Superintendent.....	\$2,300 00
Deputy Superintendent.....	2,000 00
Captains.....	1,500 00
Lieutenants.....	1,200 00
Detectives.....	1,200 00
Sergeants.....	1,100 00
Patrolmen, first year.....	780 00
" second year.....	840 00
" third year.....	900 00
" fourth year.....	960 00
" fifth year and thereafter.....	1,000 00
Secretary.....	1,800 00
Surgeon.....	1,300 00
Patrolman in charge of Patrol Service.....	1,200 00
Operators.....	1,000 00
Matrons.....	666 66
Janitor at Central Station.....	\$65 00 per mo.
Janitor at 8th Precinct Station.....	65 00 "
Janitor at 3d Precinct Station.....	55 00 "
Assistant Janitors at Central Station.....	50 00 "
Firemen at Central Station.....	60 00 "
Female Janitors.....	18 00 "
Female Janitors at Central Station.....	30 00 "
Hostlers.....	50 00 "
Lineman.....	50 00 "
Messenger for Police Court.....	25 00 "

NUMBER OF DAYS LOST BY SICKNESS AND DIS-
ABILITY IN EACH MONTH.

Month.	Sickness.	Disability.	Total.
January	235	50	285
February.....	218	37	255
March.....	211	98	309
April	198	26	224
May	167	91	258
June.....	138	31	169
July	111	20	131
August	121	50	171
September.....	147	31	178
October.....	179	31	210
November	241	20	261
December	309	72	381
Total	2,275	557	2,832

Total amount of days taken by the members of the force during the year under Rule 44 was.....	4,190
Total amount of days taken with leave	258
Suspended.....	76

Rule 44 allows each member of the force twelve days leave of absence each year without deduction of pay.

Time lost by sickness and disability is paid in full.

Time taken with leave and suspension is deducted.

Appointment and Promotion of Officers

OF CLEVELAND POLICE FORCE.

GEORGE E. CORNER, appointed Patrolman, April 20, 1880; Acting Sergeant, June 7, 1887; Sergeant, January 25, 1892; Lieutenant, July 16, 1892; Detective, June 6, 1894; returned to regular duty as Lieutenant, February 2, 1896; appointed Superintendent of Police, August 16, 1896.

A. S. GATES, appointed Patrolman, November 13, 1871; Acting Sergeant, January 20, 1882; Sergeant, December 30, 1882; Superintendent's Clerk, February 18, 1884, to February 27, 1885; Lieutenant, December 4, 1885; Captain, February 19, 1889; Deputy Superintendent, September 20, 1896.

JOHN VANEK, appointed Secretary of Board of Police, July 1, 1887; reappointed, under the new law, Secretary of Police, February 12, 1891.

F. B. NORTON, appointed Police Surgeon, September 13, 1887; reappointed, under the new law, Police Surgeon, March 14, 1889.

E. K. HUTCHINSON, appointed Sergeant, April 12, 1876; Acting Lieutenant, May 16, 1882; Lieutenant, December 30, 1882; Captain, September 15, 1885.

M. F. MADIGAN, appointed Patrolman, May 1, 1866; Fifth Sergeant, May 31, 1866; Fourth Sergeant, December 1, 1869; Lieutenant, April 12, 1876; Captain, November 5, 1885.

MICHAEL ENGLISH, appointed Patrolman, April 8, 1871; Acting Sergeant, August 26, 1875; Superintendent's Clerk, July 3, 1882; Lieutenant, February 5, 1884; Captain, July 1, 1893.

E. W. BRADLEY, appointed Patrolman, April 29, 1875, to April 15, 1876; reappointed Patrolman, August 2, 1876; Acting Sergeant, May 16, 1882; Sergeant, February 5, 1884; Lieutenant, July 16, 1892; Captain, December 1, 1894, and detailed as Chief of Detectives; returned to regular duty as Captain, April 20, 1895.

W. S. ROWE, appointed Patrolman, May 18, 1880; detailed as License Officer, February 18, 1888; detailed as Secretary, August 1, 1891; Sergeant, July 16, 1892; Lieutenant, June 6, 1894; Captain, September 20, 1896.

J. J. LOHRER, appointed Patrolman, May 1, 1866; Acting Sergeant, April 16, 1872; Detective, April 12, 1876; Sergeant, January 13, 1897; Lieutenant, January 14, 1897; and Captain, January 15, 1897.

CONRAD KOCH, appointed Patrolman, May 30, 1866; Roundsman, April 16, 1872; Acting Sergeant, January 25, 1875; Lieutenant, April 12, 1876.

JOHN SCHRIBER, appointed Patrolman, April 6, 1870; Roundsman, August 7, 1873; Sergeant, April 12, 1876; Acting Lieutenant, April 6, 1877; Lieutenant, April 14, 1877.

S. KUSHMAN, appointed Patrolman, April 25, 1868; Roundsman, January 25, 1875; Acting Sergeant, April 22, 1875; Sergeant, April 12, 1876; Lieutenant, February 5, 1885.

THOMAS THOMPSON, appointed Patrolman, May 15, 1867, to September 19, 1870; reappointed Patrolman, November 6, 1872; Acting Sergeant, May 23, 1881; Sergeant, January 20, 1882; Lieutenant, December 4, 1885.

JOSIAH JOHNSON, appointed Patrolman, July 19, 1871; Roundsman, October 24, 1877; Sergeant, May 23, 1881; Lieutenant, May 4, 1886.

JOHN DUNN, appointed Patrolman, December 30, 1870; Acting Sergeant, December 30, 1882; Sergeant, December 18, 1883; Lieutenant, May 4, 1886.

GEORGE KADEL, appointed Patrolman, April 29, 1870, to September, 1872; reappointed Patrolman, May 21, 1873; Acting Sergeant, December 30, 1882; Sergeant, December 4, 1885; Lieutenant, April 12, 1887.

GEORGE BROADWELL, appointed Patrolman, April 14, 1877; Acting Sergeant, May 16, 1882; Sergeant, December 30, 1882; Lieutenant, May 8, 1888.

P. A. SEARLES, appointed Patrolman, November 2, 1871; Acting Roundsman, November 6, 1872; Sergeant, April 12, 1876; Lieutenant, May 8, 1888.

JACOB STEIN, appointed Patrolman, July 18, 1866, to October 20, 1866; reappointed Patrolman, September 11, 1868; Sergeant, September 13, 1876; Lieutenant, May 8, 1888.

JOHN BURNS, appointed Patrolman, May 8, 1868; Acting Sergeant, October 26, 1883; Sergeant, December 4, 1885; Lieutenant, February 19, 1889.

CHARLES TRESSEL, appointed Patrolman, November 28, 1869; Acting Sergeant, December 4, 1885; Sergeant, May 4, 1886; Lieutenant, September 1, 1891.

JOHN O'LAUGHLIN, appointed Patrolman, February 12, 1873; Acting Sergeant, October 26, 1883; Sergeant, December 4, 1885; Lieutenant, July 16, 1892.

WM. JENKIN, appointed Patrolman, January 20, 1882; detailed as Acting Sergeant, February 19, 1889; returned to regular patrol duty, May 28, 1889; detailed again as Acting Sergeant, June 4, 1889; appointed Sergeant, December 17, 1889; Lieutenant, July 16, 1892.

- PATRICK CORKHILL, appointed Patrolman, April 13, 1869; Acting Sergeant, December 4, 1885; Sergeant, May 4, 1886; Lieutenant, July 21, 1893.
- JOHN SCHMUNK, appointed Patrolman, January 15, 1881; Acting Sergeant, January 28, 1892; Sergeant, July 16, 1892; Lieutenant, April 1, 1894.
- HUGH MASTERSON, appointed Patrolman, August 7, 1883; Sergeant, February 12, 1891; Lieutenant, January 27, 1895.
- SILAS PIERCE, appointed Patrolman, August 22, 1886; Sergeant, July 16, 1892; Lieutenant, July 1, 1895.
- FRED. KOHLER, appointed Patrolman, July 16, 1889; detailed to Secretary, June 9, 1895; Sergeant, July 1, 1895; Lieutenant, September 20, 1896.
- J. W. VARNER, appointed Patrolman, January 21, 1878; Acting Sergeant, May 8, 1888; Sergeant, February 19, 1889; Lieutenant, September 20, 1896.
- E. T. GRANGER, appointed Patrolman, September 7, 1871; Roundsman, December 4, 1874; Sergeant, April 12, 1876; Lieutenant, May 23, 1881; Detective, May 4, 1886; returned to regular duty as Lieutenant, September 14, 1896.
- N. A. SHATTUCK, appointed Patrolman, July 16, 1889; Sergeant, February 13, 1896; detailed to Secretary, September 21, 1896; Lieutenant, January 5, 1897.
- H. T. FEHLHABER, appointed Patrolman, April 6, 1877; Acting Sergeant, February 19, 1889; Sergeant, July 16, 1892; Lieutenant, January 16, 1896; detailed as Detective, February 2, 1896; returned as Lieutenant, January 15, 1897.
- M. F. WOOD, appointed Patrolman, May 20, 1877; License Officer, June 23, 1885; detailed to Secretary, February 14, 1888; Sergeant and appointed to Secretary, March 14, 1889; Lieutenant, July 20, 1897.
- JOHN REEVES, appointed Patrolman, May 13, 1875; Special Detective, July 8, 1875; Detective, April 26, 1876.
- A. McMILLAN, appointed Patrolman, February 23, 1872; Acting Detective, July 10, 1883; Detective, December 18, 1883.
- J. F. SPROSTY, appointed Patrolman, November 6, 1872; Emigrant Officer, June 23, 1885; Detective, May 8, 1888.
- JAMES DORAN, appointed Patrolman, April 15, 1884; detailed as Detective, July 12, 1893.
- C. E. PARKER, appointed Patrolman, December 28, 1882; Acting Sergeant, September 1, 1891; Sergeant, July 16, 1892; Lieutenant, December 1, 1894; detailed as Detective, September 14, 1896.
- L. A. DECILLE, appointed Patrolman, March 1, 1881; Acting Sergeant, November 5, 1881; Sergeant, July 16, 1892; Lieutenant, February 11, 1896; detailed as Detective, February 16, 1896.

- WILLIAM WATT**, appointed Patrolman, May 18, 1886 ; Sergeant, January 5, 1897 ; detailed as Detective, January 15, 1897.
- C. O. KLAUE**, appointed Patrolman, May 2, 1882 ; Acting Sergeant, October 2, 1888 ; returned to patrol duty, May 28, 1889 ; Acting Sergeant, September 24, 1889 ; Sergeant, February 12, 1891 ; Lieutenant, January 5, 1897 ; detailed as Detective, January 15, 1897.
- DANIEL G. STANTON**, appointed Patrolman, January 7, 1892 ; detailed as Detective, October 1, 1897.
- JOHN BEUCHLER**, appointed Patrolman, May 1, 1872 ; Acting Sergeant, August 23, 1887 ; returned to patrol duty, May 28, 1889 ; Acting Sergeant, September 24, 1889 ; Sergeant, February 12, 1891.
- M. J. REGAN**, appointed Patrolman, June 6, 1882 ; Acting Sergeant, September 16, 1890 ; Sergeant, February 12, 1891.
- J. J. DOYLE**, appointed Patrolman, June 6, 1882 ; Sergeant, April 1, 1894.
- ED. CORRIGAN**, appointed Patrolman, August, 9, 1887 ; Sergeant, July 1, 1894.
- E. F. WASHINGTON**, appointed Patrolman, August 7, 1883 ; Sergeant, October 3, 1894.
- JAMES CULLEN**, appointed Patrolman, August 7, 1883 ; Sergeant, December 1, 1894.
- THOMAS COMMERFORD**, appointed Patrolman, December 31, 1886 ; Sergeant, January 27, 1895.
- AUGUST BRANDT**, appointed Patrolman, April 12, 1886 ; Sergeant, May 1, 1895.
- ALFRED WALKER**, appointed Patrolman, June 29, 1886 ; Sergeant, January 16, 1896.
- FRED. DOERING**, appointed Patrolman, March 6, 1888 ; Sergeant, September 20, 1896.
- M. M. MCELHANEY**, appointed Patrolman, May 4, 1886 ; Sergeant, September 20, 1896 ; detailed to Secretary, January 4, 1897.
- JOHN ROWLANDS**, appointed Patrolman, January 7, 1892 ; Sergeant, January 5, 1897.
- WILLIAM SCHNEIDER**, appointed Patrolman, June 3, 1881 ; Sergeant, January 16, 1897.
- GEORGE A. KADEL**, appointed Patrolman, June 3, 1886 ; Sergeant, January 21, 1897.
- J. M. BROOKS**, appointed Patrolman, May 4, 1880 ; Sergeant, February 6, 1897.
- FREDERICK FISCHER**, appointed Patrolman, December 20, 1887 ; Sergeant, July 20, 1897.
- HERMAN PRANGE**, appointed Patrolman, January 19, 1886 ; Sergeant, October 1, 1897.

INVENTORY OF PUBLIC PROPERTY APPERTAINING TO THE POLICE DEPARTMENT OF THE CITY OF CLEVELAND.

DEPARTMENT OF POLICE.

Police Stations.	Location.	Value of Land.	Value of Buildings.	Value of Apparatus.	Value of Furniture and Fixture.	Value of Horses.	Value of Supplies and Equipm'ts	Value of Sewer and Water Connecti'ns	Total.
Headquarters.....	City Hall.....	\$.....	\$.....	\$.....	\$ 900 00	\$.....	\$ 700 00	\$.....	\$ 1,600 00
1st Precinet.....	Champlain street.....	90,000 00	110,000 00	.....	6,500 00	.....	2,000 00	1,000 00	209,500 00
2nd "	Oregon street.....	3,000 00	5,000 00	.....	350 00	.....	330 00	300 00	8,980 00
3rd "	Forest street.....	2,500 00	6,500 00	.....	1,000 00	.....	400 00	250 00	10,650 00
4th "	Wilson, cor. Perkins..	4,600 00	10,000 00	.....	900 00	.....	350 00	250 00	16,100 00
5th "	East Madison, near } Woodland.....	2,500 00	10,000 00	.....	900 00	.....	280 00	200 00	13,880 00
6th "	Willson nr. Broadway	2,500 00	3,500 00	.....	1,400 00	.....	400 00	250 00	8,050 00
7th "	Wales street.....	1,000 00	1,500 00	.....	700 00	.....	300 00	50 00	3,550 00
8th "	Detroit, cor. State st..	10,000 00	45,000 00	.....	900 00	.....	540 00	350 06	56,790 00
9th "	Barber avenue.....	1,500 00	3,000 00	.....	800 00	.....	275 00	120 00	5,695 00
10th "	Swiss street.....	1,000 00	3,500 00	.....	800 00	.....	250 00	120 00	5,670 00
11th "	Doan street.....	2,400 00	10,500 00	.....	700 00	.....	250 00	300 00	14,150 00
12th "	Detroit street.....	2,500 00	10,000 00	.....	800 00	.....	250 00	300 00	13,850 00

INVENTORY OF PUBLIC PROPERTY APPERTAINING TO THE POLICE DEPARTMENT
OF THE CITY OF CLEVELAND.—Concluded.

DEPARTMENT OF POLICE.

Police Stations.	Location.	Value of Land.	Value of Buildings.	Value of Apparatus.	Value of Furniture and Fixtures.	Value of Horses.	Value of Supplies and Equipm'ts	Value of Sewer and Water Connect'ns	Total.
Patrol Station No. 1.....	Champlain street.....	\$18,000 00	\$16,500 00	\$ 1,500 00	\$ 150 00	\$ 800 00	\$ 350 00	\$ 40 00	\$ 37,700 00
" 2.	State street.....	2,000 00	10,000 00	800 00	100 00	400 00	150 00	150 00	13,600 00
" 3.....	Oregon street.....	1,600 00	2,000 00	500 00	50 00	400 00	150 00	100 00	4,800 00
" 4.....	Willson avenue.....	2,000 00	3,000 00	750 00	150 00	400 00	150 00	100 00	6,550 00
" 5.....	Swiss street.....	1,000 00	2,000 00	550 00	50 00	150 00	75 00	50 00	3,875 00
Patrol System.....	.....	.....	.....	25,000 00	150 00	.....	100 00	.....	25,250 00
Total.....	\$148,100 00	\$252,000 00	\$29,100 00	\$17,300 00	\$2,150 00	\$7,300 00	\$4,290 00	\$460,240 00

DEPARTMENT OF POLICE.

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SPECIAL POLICEMEN.

Appointed during the year, at request of Citizens and Companies.

Name.	Place of Duty.	Appointed.
M. Roskopf.....	Broadway and other streets.....	January 7, 1897.
L. J. Rabschaw.....	Globe Iron Works.....	January 25, 1897.
Frank Leonard.....	Plymouth street.....	January 27, 1897.
Watson Greenman.....	Salvation Army on Hill street.....	January 29, 1897.
Joseph Trefney.....	Chicago & Pittsburgh Gas Coal Co.....	Febru'ry 15, 1897.
Edward A. O'Malley.....	Alex. Campbell's Block.....	Febru'ry 16, 1897.
Wm. Brendel.....	Erle R. R. Co.'s premises.....	April 9, 1897.
Emil Pfau.....	Atlantic Refining Co.....	April 9, 1897.
Henry A. Walton.....	W. J. White, Lake avenue.....	April 19, 1897.
J. C. Silverwood.....	L. P. & J. A. Smith, docks.....	April 19, 1897.
Jacob Tammer.....	Pearl street, Nickel Plate to Clark avenue...	May 10, 1897.
Christ Belky.....	Osborn Building Co.....	May 13, 1897.
Wm. Berrigan.....	Pearl and Lorain streets.....	May 17, 1897.
Frank A. Williams.....	Belt Line and C. & S. R. R.....	May 24, 1897.
Joseph Gayneau.....	Bridge, Denison and Lorain streets.....	June 11, 1897.
M. J. Schmitz.....	Cemetery, Burton street.....	June 12, 1897.
Daniel O'Brien.....	Broadway, Canton to Miles avenue.....	July 6, 1897.
Fred W. Dorman.....	Vanness avenue and other streets.....	July 15, 1897.
L. A. Moench.....	Prospect, Brownell and Erie streets.....	July 23, 1897.
Wm. Meusner.....	Detroit and other streets.....	August 23, 1897.
W. Van Ornum.....	Seneca and Jefferson streets.....	August 27, 1897.
August Keller.....	Orpheus Hall, Pearl street.....	S'pt'mb'r 10, 1897.
August Swese.....	Finkbeine's Hall, Pelton avenue.....	S'pt'mb'r 15, 1897.
Wm. E. Zehner.....	Hollenden Hotel.....	S'pt'mb'r 17, 1897.
Wm. Felt.....	Cleveland Foundry Co.....	S'pt'mb'r 21, 1897.
Thos. Murtaugh.....	Sawtell avenue.....	S'pt'mb'r 28, 1897.
Ed. Peebles.....	Kennard street.....	October 6, 1897.
Alois Zak.....	Bohemian National Hall.....	October 21, 1897.
M. V. Jacobson.....	Woodland avenue and other streets.....	October 28, 1897.
Chas. Ebner.....	Clark avenue.....	Nov'mb'r 20, 1897.
E. L. Sitts.....	First Congregational Church.....	Nov'mb'r 15, 1897.
James Quigley.....	Lake View Cemetery.....	December 2, 1897.
Jake Mintz.....	Stillman Hotel.....	Dec'mber 16, 1897.

DEPARTMENT OF POLICE.

SPECIAL POLICEMEN.—Concluded.

Appointed during the year, at request of Citizens and Companies.

Name.	Place of Duty.	Appointed.
W. H. Ritter	Pennsylvania Co.....	January 15, 1897.
Chas. O. Adams	" "	February 8, 1897.
Henry H. Buchtel.....	" "	March 22, 1897.
David A. Park.....	" "	April 10, 1897.
David E. Herbert	" "	July 8, 1897.
Joseph Busch.....	" "	August 27, 1897.
Frank Fuller.....	Cleveland Special Police Co.....	January 11, 1897.
Charles E. Bean	" " "	March 8, 1897.
J. A. Hawkins.....	" " "	April 21, 1897.
E. L. Rawlins	" " "	May 15, 1897.
C. W. Robinson	" " "	May 15, 1897.
Wm. Ferguson	" " "	May 15, 1897.
D. Curran	" " "	June 8, 1897.
Charles Ney.....	" " "	July 14, 1897.
Joseph Cary	" " "	August 16, 1897.
Wm. Minogue.....	" " "	August 16, 1897.
Lean Jablonski.....	" " "	Nov'r 26, 1897.
Nelson Weyer	" " "	December 1, 1897.
E. W. Chittenden.....	Union Special Police Co.....	January 29, 1897.
Edward Lawler	" " "	April 24, 1897.
Charles Bick	" " "	May 7, 1897.
P. J. Lawler	" " "	July 16, 1897.
Lewis Bixler	" " "	August 24, 1897.
Ignatius Antoniewicz	" " "	Septemb'r 8, 1897.
A. Seligson.....	Metropolitan Detective Agency Co	January 21, 1897.
J. C. Woodruff	" " "	January 21, 1897.
James Byrne	" " "	June 25, 1897.
August Grussey	" " "	S'pt'mb'r 25, 1897.
Ernest Wallace.....	" " "	March 4, 1897.
Emil Schaubacher.....	" " "	March 5, 1897.
Chas. W. McCort.....	" " "	March 11, 1897.
John P. Coyne.....	Union Defenders of Soldiers and Sailors....	July 20, 1897.
Isaac Townsley.....	" " " " "	August 3, 1897.

CITY OFFICERS AND EMPLOYES CLOTHED WITH POLICE POWERS DURING THE YEAR.

Name.	Official Position.	Appointed.
R. B. Mnndy	Bath House, Edgewater Park	January 3, 1897.
D. J. Clark	Bath House, Edgewater Park	May 3, 1897.
I. L. Buskirk	Hay Weigher	S'pt'mb'r 14, 1897.
Wm. Darmstatter	Hay Weigher	S'pt'mb'r 17, 1897.
A. J. Hunt	Infirmery Investigator	May 28, 1897.
J. C. Woodruff	Janitor Central Station	October 15, 1897.
Jas H. Lawrence	Superintendent Cleaning Markets	May 5, 1897.
John D. Griffiths	School Janitor	January 2, 1897.
E. B. Ringle	" "	April 24, 1897.
Wm. J. Slocumbe	" "	S'pt'mb'r 18, 1897.
Homer Whelpley	" "	S'pt'mb'r 18, 1897.
J. A. Clink	" "	S'pt'mb'r 18, 1897.
Chas. W. Werner	" "	S'pt'mb'r 18, 1897.
Bernhard Hanson	" "	S'pt'mb'r 18, 1897.
Webb A. Strong	" "	S'pt'mb'r 25, 1897.
C. W. Boys	" "	S'pt'mb'r 25, 1897.
John Edwards	" "	Novemb'r 6, 1897.
Wm. Hobson	" "	Nov'mb'r 13, 1887.
Geo. H. Watkins	Park Police	April 1, 1897.
Chas. M. Roof	" "	May 1, 1897.
Frank D. Bosworth	" "	May 1, 1897.
J. Freeman	" "	May 1, 1897.
Wm. Gottwald	Water Works Department	June 3, 1897.
E. J. Rosekrans	Street Department	May 22, 1897.
E. J. Weber	" "	May 22, 1897.
Geo. E. Davis	" "	June 30, 1897.
Louis Bernstein	" "	August 24, 1897.
Gustav Brugman	Woodland Cemetery	September 8, 1897.
H. J. Stauffer	Lake Shore Front	Decemb'r 22, 1897.

Report of the Superintendent of Police.

CLEVELAND, O., January 1st, 1898.

To Capt. E. A. Abbott, Director of Police :

SIR :—I have the honor to submit herewith the annual report of the Police Department for the fiscal year ending December 31st, 1897, together with a few suggestions to which reference at this time may not be deemed improper.

When it is taken into consideration that this city has an area of nearly 32 square miles of territory, with a large percentage of its population scattered, and 565 miles of streets to be guarded and patrolled, that our present force is inadequate to give proper protection to life and property of our citizens must be apparent to any person, who will take time to consider the subject.

Demands are constantly being made for increased police protection by citizens living in the outskirts of the city, as well as manufacturers and business firms through the central portion and along the river; they are taxpayers and these demands are reasonable and should be complied with, but this can only be done by an increase of the force. Crime grows in cities as the population increases; Cleveland is no exception in this matter. An increase of the force would be the greatest boon the Council could bestow on the citizens whom they represent.

The service of the Detective Department under the supervision of Capt. J. J. Lohrer must be classed as excellent. They have arrested and prosecuted many noted criminals and performed a large amount of work considering the smallness of their force.

The records of the past year show that active and persistent work has been done by the entire force, and at no time has the criminal element been permitted to gain the slightest hold.

Known thieves, crooks and suspicious characters have been and will be arrested at the first opportunity, and the driving of habitual vagrants out of the city, or sending them to the Workhouse has met with gratifying success. This class of criminals have learned that this city is not a suitable place for them to follow their vocation.

In conclusion, would say that the year just closed has been a creditable one to the Department. The conduct of the officers and patrolmen, as a rule, has been excellent. Often harsh criticism is made, when if the true facts were known they would be commended.

The poor and helpless in this city always find a friend in the policemen.

Respectfully submitted,

GEO. E. CORNER,

Superintendent of Police.

DEPARTMENT OF POLICE.

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The following statistical tables will more particularly show the detailed workings of the force for the year ending December 31st, 1897.

ARRESTS MADE DURING THE YEAR.

Mon'h.	Males.	Females.	Total.
January	700	81	781
February	752	78	830
March.	851	99	950
April	949	125	1,074
May	1,426	262	1,688
June.....	1,129	133	1,262
July	1,144	118	1,262
August	1,205	164	1,369
September.....	1,143	125	1,268
October.....	1,301	120	1,421
November	1,112	72	1,184
December	1,256	106	1,392
Total	12,998	1,483	14,481

COLOR.

White	13,889
Colored.....	592
Total	14,481

SOCIAL CONDITION.

	Males.	Females.	Total.
Married	4,517	698	5,215
Single	8,481	785	9,266
Total	12,998	1,483	14,481

QUALIFICATION.

Able to read and write	13,553
Unable to read and write.....	928
Total	14,481

OFFENSES.

VIOLATING STATE LAWS.

Accepting a bribe.....	2
Adultery	8
Arson	6
Assault.....	3
Assault and battery.....	734
Assault with intent to rob	2
Assault with intent to kill	9
Assault with intent to rape.....	8
Attachment	138
Bigamy	1
Burglary	13
Burglary, attempting	4
Burglary and larceny	108
Carrying concealed weapons	112
Cock fighting	7
Contempt of Court.....	1
Cruelty to animals.....	61
Cutting with intent to kill	10
Cutting with intent to wound.....	31
Defrauding inn-keeper.. ..	13
Destroying property.....	104
Deserting from United States Army.....	2
Desertion	1
Escaping from prison	3
Embezzlement.. ..	32
Forgery.....	9
Fornication	7
Fugitive from justice.....	39
Gambling	23
Grand larceny.....	78
Having burglars' tools in possession	3
Horse stealing.....	11
House breaking	13
Illegal voting.....	2

DEPARTMENT OF POLICE.

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Incest	I
Incorrigible conduct.....	38
Jail breaking..	I
Keeping opium rooms.....	2
Maiming	I
Manslaughter.	3
Murder	6
Neglecting minor children.....	48
Obstructing officer.....	16
Obtaining money by false pretenses	17
Obtaining goods by false pretenses.....	10
Obscene literature in possession	2
Passing counterfeit money.....	I
Petit larceny..	771
Pocket picking.....	22
Pool selling.....	13
Rape.	14
Receiving and buying stolen property.....	34
Receiving and concealing stolen property.....	7
Robbery.....	43
Selling cigarettes to minors.....	6
Selling tobacco to minors.....	6
Selling liquor to minors	I
Shooting with intent to wound.....	3
Shooting with intent to kill	17
Stabbing with intent to wound.....	5
Trespassing	2
Threatening in a menacing manner.....	13
Uttering forged tickets.....	I
Violating base ball law	19
Verbal libel	I
Violating election law.....	I
Violating labor law	I
Violating label law	I
Violating pawnbroker law.....	I
Violating railroad law	679
Violating Sunday liquor law	62
Violating the truancy law.....	132
Visiting opium rooms	6
Wrongfully using animals	13
Total.....	3618

DEPARTMENT OF POLICE.

VIOLATING CITY ORDINANCES.

Careless driving.....	4
Common beggar	80
Common prostitute.....	206
Disorderly conduct...:	396
Disturbance	355
Fast driving.....	3
Indecent exposure of person.....	13
Intoxication.....	7344
Keeping house of ill-fame	74
Keeping gambling rooms	22
Residing in house of ill-fame.....	186
Street soliciting.....	29
Suspicious persons	454
Trespassing	9
Vagrancy	214
Violating bathing ordinance	10
Violating bicycle ordinance.....	205
Violating bill posters' ordinance	28
Violating billiard ordinance.....	7
Violating building ordinance	2
Violating express ordinance	21
Violating engineers' ordinance.....	1
Violating fire alarm ordinance	7
Violating firearms ordinance.....	11
Violating health ordinance.....	27
Violating junk ordinance.....	12
Violating market ordinance.....	2
Violating music ordinance	29
Violating park ordinance	10
Violating peddlers' ordinance.....	83
Violating property ordinance	149
Violating stall ordinance	1
Violating sewer ordinance	2
Violating sidewalk ordinance	471
Violating smoke ordinance	5
Violating street ordinance	59
Violating street railroad ordinance.....	56
Violating weights and measures ordinance	5
Visiting houses of ill-fame.....	233
Visiting gambling rooms	38
Total	10,863

TOTAL NUMBER OF ARRESTS DURING THE YEAR.

Violating State Laws.....	3,618
Violating City Ordinances.....	10,863
Total	14,481

DEPARTMENT OF POLICE.

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OCCUPATIONS.

Actors	11
Agents	215
Architects.....	4
Artists.....	10
Auctioneers.....	1
Bakers.....	68
Ball players	19
Barbers	101
Bartenders	125
Basket makers.....	1
Beggars	5
Bill posters	19
Blacksmiths.....	98
Boatmen	3
Boilermakers.....	127
Boltmakers.....	26
Bookbinders	6
Bookkeepers	77
Bootblacks	19
Boxmakers	3
Brakemen	62
Brewers.	23
Bridge tenders	1
Bricklayers.....	78
Bridge builders.....	2
Brickmakers	3
Brokers	8
Broommakers	7
Brushmakers	2
Butchers	147
Calkers	2
Cabinetmakers	5
Canvassmen.....	4
Carpenters.....	348
Carriagemakers	24
Cigarmakers	77
Clergymen	1
Clerks	259
Coachmen.....	37
Collectors	18
Conductors	10
Confectioners.....	11
Contractors	38
Cooks.....	150
Coopers.....	29

Coremakers	36
Distillers.....	1
Doctors.....	40
Draftsmen	3
Dressmakers	22
Domestics	9
Druggists	4
Dentist.....	1
Electricians	57
Engineers.....	157
Expressmen.....	27
Farmers.....	157
Finishers	70
Florists	12
Firemen.....	159
Fishermen	12
Gasfitters.....	3
Gamblers	4
Gardeners.....	31
Glassblowers	5
Grocers	41
Hackmen	8
Hatters	7
Harnessmakers.....	14
Heaters	26
Helpers	10
Horseshoers	41
Hostlers	117
Housekeepers	549
Housemovers	7
Hotelkeepers.....	12
Hucksters.....	73
Hatters	4
Ironworkers.....	175
Janitors	13
Jewelers.....	16
Junk dealers.....	20
Laborers	3674
Lamplighters	5
Lawyers	13
Lathers	5
Livery keepers.....	5
Laundress	1
Laundrymen	11
Lithographers.....	10
Locksmiths	7
Machinists	376

DEPARTMENT OF POLICE.

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Manufacturers	8
Masons	30
Mechanics	21
Merchants	32
Milkmen	8
Miners	22
Moulders	315
Motormen	3
Musicians	49
Nailmakers	6
Newsboys	36
Newspapermen	14
Nurse	1
Operatives	28
Painters	376
Pawnbroker	1
Paperhangers	70
Patternmakers	16
Peddlers	252
Plasterers	50
Plumbers	93
Polishers	116
Porters	49
Printers	133
Prostitutes	539
Publisher	1
Puddlers	15
Railroad men	155
Rolling mill men	132
Roofers	24
Salesmen	50
Sailors	387
Saloonkeepers	199
Schoolboys	450
Schoolgirls	11
Springmaker	1
Servants	163
Stove mounter	1
Ship carpenters	19
Soldiers	3
Shoemakers	102
Steamfitters	49
Stonecutters	67
Stenographers	12
Stonemasc ns	17
Students	5
Tailors	103

DEPARTMENT OF POLICE.

Teachers	2
Teamsters	517
Thieves	9
Tinsmiths	120
Tugman	1
Turners	7
Undertakers	5
Upholsterers	11
Waiters	107
Washerwomen	15
Watchmen	29
Weavers	5
Welldigger	1
Whitewashers	12
Wireworkers	53
No occupation	1019
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Total	14,481

DEPARTMENT OF POLICE.

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NATIVITY.

Arabia	7
Australia	33
Austria	146
Belgium	2
Bohemia.....	444
Canada.....	417
China	5
Denmark.....	15
England	533
Finland	26
France	33
Germany.....	1281
Greece	11
Holland	21
Hungary	220
India	1
Ireland	1262
Isle of Man	5
Italy	121
Mexico	2
Norway	20
Nova Scotia	5
Newfoundland	9
Poland	306
Russia	167
Scotland	189
Slovacs	105
Sweden	71
Switzerland	65
United States	8880
Wales.....	75
West India.....	4
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Total	14,481

DEPARTMENT OF POLICE.

AGES.

	Under Ten.	Ten to Twenty.	Twenty to Thirty.	Thirty to Forty.	Forty to Fifty.	Fifty to Sixty.	Sixty and over.	Total.
Total	38	2,484	5,327	3,580	1,972	828	252	14,481

DISPOSITION OF CASES.

	Fine and Costs.	Fine and Workhouse.	Costs.	Nolled.	Dismissed.	Bound over to Court of Common Pleas.	Cases continued.	Delivered to Officers from Abroad.	Committed to Infr- mary.	Committed to Reform Farm.	Delivered to Sheriff.	Sent to Hospital.	Bonds Forfeited.	Committed to House of Good Shepherd.	Cases not disposed of.	Total.
Total	7,838	758	1,531	267	1,950	202	1,702	75	17	79	45	6	6	3	2	14,481

2,475 of the 7,838 sentenced to "fine and costs," unable to pay the same, were sent to the Workhouse, so that the number of prisoners received at the Workhouse was 3,233.

TOTAL OF ARRESTS FOR THE PAST TWENTY
YEARS.

1878.	7,151
1879.	6,539
1880.	7,432
1881.	7,465
1882.	6,741
1883.	7,254
1884.	7,270
1885.	6,882
1886.	6,732
1887.	8,588
1888.	8,734
1889.	10,377
1890.	9,616
1891.	11,133
1892.	10,717
1893.	9,368
1894.	9,751
1895.	11,006
1896.	13,491
1897.	14,481

PROPERTY REPORTED STOLEN AND RECOVERED
DURING THE YEAR.

Months.	Stolen.	Recovered.
January.....	\$2,513 03	\$1,655 70
February.....	3,207 51	1,648 10
March.....	1,946 10	1,605 98
April.....	2,852 78	1,534 15
May.....	1,899 85	906 30
June.....	2,764 50	2,772 31
July.....	2,564 85	1,895 60
August.....	2,916 28	1,585 45
September.....	3,175 76	2,091 05
October.....	2,240 00	1,686 17
November.....	1,820 40	1,547 43
December.....	1,716 00	592 25
Total.....	\$29,617 04	\$19,420 49

PROPERTY REPORTED STOLEN AND RECOVERED
FOR THE PAST TWENTY-FOUR YEARS.

Years.	Stolen.	Recovered.	Per Cent. Recovered
1874.....	\$35,559 83	\$17,856 57	50.75
1875.....	50,109 77	29,273 26	58.41
1876.....	34,762 72	24,036 60	69.20
1877.....	27,677 67	30,066 60	79.76
1878.....	29,731 43	23,595 95	80.33
1879.....	21,068 25	13,075 25	62.06
1880.....	28,780 90	24,913 40	86.56
1881.....	135,880 75	124,508 09	91.63
1882.....	45,308 55	22,120 85	47.72
1883.....	21,266 80	12,180 46	57.22
1884.....	37,128 67	29,783 16	80.21
1885.....	32,227 53	14,410 02	44.99
1886.....	26,775 41	12,840 14	47.95
1887.....	38,805 64	17,844 19	46.24
1888.....	34,030 34	11,215 01	32.95
1889.....	57,310 84	13,305 15	23.22
1890.....	36,521 06	20,533 32	56.23
1891.....	42,978 71	22,302 64	51.89
1892.....	39,292 50	16,512 91	42.02
1893.....	40,717 97	22,534 96	55.34
1894.....	50,503 16	56,212 30	.....
1895.....	40,200 47	22,130 56	55.05
1896.....	38,168 61	19,370 63	50.75
1897.....	29,617 04	19,420 49	65.57

NUMBER OF PERSONS SENT TO THE WORKHOUSE.

Months.	Males.	Females.	Total.
January	201	22	223
February	157	26	183
March	214	31	245
April	199	25	224
May	266	25	291
June	252	50	302
July	220	26	246
August	260	35	295
September	232	20	252
October	280	30	310
November	284	14	298
December	338	26	364
Total	2,903	330	3,233

NUMBER OF PERSONS SENT TO WORKHOUSE AND
HOUSE OF CORRECTION FOR THE PAST
SIXTEEN YEARS.

1882.

Sent to Workhouse.....	1,514
Sent to House of Refuge and Correction.....	60
	1,574
Total.....	1,574

1883.

Sent to Workhouse.....	1,507
Sent to House of Refuge and Correction.....	114
	1,621
Total.....	1,621

1884.

Sent to Workhouse.....	1,812
Sent to House of Refuge and Correction.....	114
	1,926
Total.....	1,926

1885.

Sent to Workhouse.....	2,098
Sent to House of Refuge and Correction.....	85
	2,183
Total.....	2,183

1886.

Sent to Workhouse.....	1,829
Sent to House of Refuge and Correction.....	68
	1,897
Total.....	1,897

1887.

Sent to Workhouse	1,981
Sent to House of Refuge and Correction.....	63
	2,044
Total.....	2,044

1888.

Sent to Workhouse.....	2,022
Sent to House of Refuge and Correction.....	37
	2,059
Total.....	2,059

DEPARTMENT OF POLICE.

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1889.

Sent to Workhouse.....	3,038
Sent to House of Refuge and Correction.....	<u>49</u>
Total.....	3,087

1890.

Sent to Workhouse.....	2,660
Sent to House of Refuge and Correction.....	<u>58</u>
Total.....	2,718

1891.

Sent to Workhouse.....	3,105
Sent to House of Refuge and Correction.....	<u>42</u>
Total.....	3,146

1892.

Sent to Workhouse.....	2,737
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1893.

Sent to Workhouse.....	2,462
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1894.

Sent to Workhouse.....	2,872
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1895.

Sent to Workhouse.....	3,120
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1896.

Sent to Workhouse.....	3,548
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1897.

Sent to Workhouse.....	3,233
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DEPARTMENT OF POLICE.

MISCELLANEOUS.

Months.	Abortion.	Accidents Reported.	Accidentally Killed.	Accidents to Persons.	Assault to Kill.	Assaulted Persons.	Attempted Burglaries.	Attempt to Rape.	Attempted Robberies.	Attempted Suicides.	Arson.	Articles Lost.	Articles Found.	Animals Astray.	Animals Found.	Bicycle Accidents.	Bodies Found.	Burglaries.	Children Deserted.	Cutting Array.	Doors Found Open.	Drowned.	Fires Reported.	Horse Stealing.	House Breaking.	Lights Reported Out.		
																										Gas.	Vapor.	Electric.
January.....	13	....	33	....	....	5	....	1	1	....	9	9	11	10	....	....	52	....	2	57	....	94	....	22	172	10,702	43
February.....	3	4	36	....	1	5	....	1	1	....	12	13	8	9	....	....	63	....	3	70	....	71	....	21	223	6,444	32
March.....	1	4	34	....	8	1	....	....	....	....	7	7	3	4	....	....	54	....	1	73	....	72	....	24	125	6,286	42
April.....	1	3	24	1	7	1	....	....	....	....	14	9	8	14	....	....	57	....	4	73	1	86	....	7	77	2,884	18
May.....	4	48	....	8	1	4	1	3	....	22	20	17	21	8	3	61	1	6	79	2	61	....	15	13	787	76
June.....	4	8	61	....	11	1	....	....	3	2	25	28	11	18	7	1	59	....	10	71	3	64	....	8	65	1,588	8
July.....	3	1	52	....	6	4	2	....	3	....	19	23	13	20	3	3	53	....	2	53	9	84	....	9	27	639	57
August.....	1	....	7	44	....	7	4	....	1	6	....	20	20	27	26	3	3	50	....	6	61	4	64	1	20	19	814	23
September.....	9	64	....	3	7	....	....	6	....	20	18	34	31	6	3	53	....	1	72	4	53	....	31	24	5,837	36
October.....	6	7	42	....	4	2	....	4	2	....	28	24	21	23	8	....	57	....	4	83	1	85	....	5	52	10,239	111
November.....	1	4	36	....	2	2	....	4	2	....	15	16	22	25	2	2	46	....	4	75	....	60	....	8	218	9,769	112
December.....	8	43	....	6	2	....	2	....	....	28	26	14	11	1	....	50	....	3	81	....	69	....	3	166	6,707	52
Total.....	1	32	59	417	1	63	35	6	14	27	2	209	213	189	212	38	15	656	1	46	848	24	863	1	173	1,181	82,696	610

MISCELLANEOUS.—Concluded.

Months.	Reports Received and Referred to																										
	Insane Persons.	Mad Dogs.	Missing Persons.	Missing Persons Found	Murders.	Persons taken to Hospitals	Pockets Picked.	Rape.	Robberies.	Railroad Accidents.	Runaways.	Shooting Affrays.	Sick Persons Found on Street.	Stabbing Affrays.	Suicides.	Sudden Deaths.	Street Railroad Accidents.	Windows Found Open.	Director of Public Works.	Director of Fire.	Board of Elections.	Inspector of Buildings.	Superintendent of Police Telegraph.	Postoffice Department.	County Auditor.	U. S. Revenue Collector	
January.....	2	...	8	...	1	30	3	...	8	...	7	8	...	2	7	6	6	4	40	...	...	...	...	...	...	...	...
February.....	3	2	4	3	1	20	4	...	7	2	...	5	...	...	2	7	8	3	63	...	...	1	...	...	...	...	...
March.....	...	...	13	3	...	30	4	...	17	7	4	5	...	1	6	2	2	8	135	...	...	1	...	...	1	...	...
April.....	...	...	13	7	...	18	4	1	8	3	4	4	6	2	4	1	7	7	67	...	...	...	...	...	...	...	...
May.....	1	...	19	5	...	26	9	...	9	9	12	5	7	...	8	2	11	9	154	...	...	1	...	...	...	...	...
June.....	...	...	18	8	...	34	...	...	10	4	11	...	8	1	6	6	26	6	102	...	...	...	...	...	...	...	...
July.....	...	...	18	13	...	49	10	...	7	9	7	1	11	...	4	3	15	11	237	...	...	1	...	...	...	1	1
August.....	...	...	21	8	1	39	5	1	7	10	5	2	5	1	6	3	17	5	162	...	...	...	...	...	...	...	...
September.....	...	...	32	12	1	40	3	...	11	14	5	2	9	...	5	3	16	5	94	...	...	...	...	1	...	...	...
October.....	5	...	23	4	...	27	6	...	9	7	8	...	3	3	4	3	20	7	117	...	1	...	...	...	...	...	...
November.....	6	...	16	11	1	24	4	...	11	7	3	3	1	...	...	3	13	5	322	...	...	1	...	...	...	...	...
December.....	...	...	22	8	...	30	3	...	8	11	5	1	...	...	3	6	19	10	457	...	...	...	2	...	...	...	...
Total	17	2	206	82	5	367	55	2	112	83	71	36	50	10	55	45	160	80	1,950	1	2	4	2	2	2	1	1

Report of the Detective Department

For the Year Ending December 31, 1897.

CLEVELAND, January 1, 1898.

Capt. E. A. Abbott, Director of Police :

SIR :—The following is a report of the services performed by the Detective Department during the year of 1897 :

Amount of stolen property recovered :

January	\$1,308 00
February.....	483 00
March	648 25
April.....	1,026 00
May	737 50
June	1,772 55
July.....	698 50
August.....	1,010 50
September	1,159 00
October	1,506 55
November.....	1,368 55
December	445 50
Total.....	\$12,163 90

Circulars received and sent.....	563
Letters “ “	3943
Postal Cards “ “	6424
Telegrams “ “	766
Complaints referred.....	2497
Photographs of criminals taken.....	274
Copies of negatives.....	3714

Respectfully,
J. J. LOHRER,
Captain of Detectives.

Report of Emigrant Division.

CLEVELAND, O., January 1, 1898.

E. A. Abbott, Director of Police :

SIR:—During the year ending December 31, 1897, one thousand six hundred and forty-two emigrants arrived on the different railroads and settled in this city, of the different nationalities, as follows :

Nativity.	January.	February,	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Arabia.....							6	5	4	2		7	24
Austria			4	5		6							15
Bohemia	3	6	5	1	13		12	17	13	14	15	6	105
Denmark					1	3							4
England				1						3			4
France		8		1			2						6
Germany.....	9	26	31	43	44	37	36	23	57	36	20	19	381
Hungary.....	5	15	43	17	22	6	5	8	15	12	19	5	172
Holland.....		1											1
Ireland.....			4	17	21	23	12	4	27	17	7	4	136
Italy	4	12	17	23	35	35	25	14	1	18	22	20	226
Poland.....	11	21	58	34	43	22	43	20	39	41	27	37	396
Russia			1			7	3	10	13	9	4	13	60
Slavonia		1		15	4	8	11	17	10	13	7	8	94
Sweden			2			3	2		2	7		2	18
Total.....	32	85	165	157	183	150	157	118	181	172	121	121	1642

Report of Police Patrol Service.

JANUARY 1st, 1898.

Capt. E. A. Abbott, Director of Police :

SIR :—The following report of the workings of the Police Patrol Service for the year ending December 31st, 1897, is here-with respectfully submitted.

J. MURPHY,

Superintendent Patrol Service.

This branch of service comprises one fully equipped operating room at the Central Police Station, one complete operating switchboard each at the Sixth and Tenth Precinct Stations, six patrol wagons, five patrol stations, four horses in each station, 79 patrol boxes, of the interstate system, and 22 patrol boxes of the Gamewell system, and 20 boxes of the National system, 87 telephones, and 420 miles of wire ; the whole requiring the service of one superintendent, three operators and two linemen, four of whom are patrolmen, and six patrolmen at each patrol station, two of them are detailed as drivers at each station.

During the year several changes were made in our telephone department ; additions, removals, etc., requiring more underground cable wires. We are now using all our underground cable and two wires of the Cleveland Telephone Co. If any addition to our system is made during the coming year, it will be absolutely necessary to add to our underground system.

THE WORKINGS OF THIS DEPARTMENT FOR THE YEAR HAVE BEEN AS FOLLOWS:

Months.	Calls.			Mileage.	Wagon Nos.					Prisoners.		Transfers.		Calls.		Runs, but no Prisoners.
	Box.	Telephone.	Total.		1	2	3	4	5	Males.	Females.	Males.	Females.	Ambulance.	To County Jail.	
Jaunuary.....	373	264	637	1,196¾	300	104	81	85	64	412	55	288	21	6	46	62
February.....	373	237	600	1,169¾	291	91	104	62	52	423	60	267	20	15	29	47
March.....	452	235	687	1,320¾	358	96	107	46	80	499	74	301	18	5	37	67
April.....	468	285	753	1,396¼	366	119	99	97	72	545	85	344	17	10	28	76
May.....	605	339	944	1,790¾	455	136	162	114	77	822	243	432	23	8	53	63
June.....	545	283	828	1,628¾	386	123	115	124	80	610	106	393	29	6	47	55
July.....	516	320	836	1,661¾	387	115	145	121	68	698	88	436	40	13	43	71
August.....	630	341	971	1,750¼	451	139	157	133	91	770	120	544	47	8	51	77
September.....	575	309	881	1,706¾	453	107	134	106	84	660	93	466	35	13	64	62
October.....	616	284	900	1,634	490	121	128	93	68	722	90	446	24	9	52	50
November.....	509	230	799	1,489¼	384	131	107	103	74	605	50	495	24	4	51	50
December.....	573	339	912	1,731¼	449	153	127	105	78	649	67	568	47	9	53	73
Total.....	6,235	3,516	9,751	18,476¾	4,770	1,435	1,469	1,189	898	7,415	1,131	4,980	345	106	554	753

The sentry boxes are located throughout the city as follows:

FIRST DISTRICT.

- | | |
|-----------------------------------|----------------------------------|
| 2—City Hall. | 35—Commercial and Berg streets. |
| 3—St. Clair and Ontario streets. | 36—Ohio and Hill streets.. |
| 4—St. Clair and Bond streets. | 37—Cross and Hill streets. |
| 5—Lake and Erie streets. | 38—Erie and Woodland avenue. |
| 6—Summit and Wood streets. | 42—Bank and Frankfort streets. |
| 7—Summit and Seneca streets. | 43—St. Clair and Water streets. |
| 8—Lake and Bank streets. | 45—Superior and Water streets. |
| 9—Union Depot. | 46—River and Front streets. |
| 21—Superior and Park. | 47—E. Main and Meadow streets. |
| 23—Ontario and Michigan streets. | 48—St. Clair and Spring streets. |
| 24—Ontario and Huron streets. | 51—Superior street Hill. |
| 25—Central Market House. | 52—Center and Leonard streets. |
| 26—Erie and Eagle streets. | 53—Ohio and Brownell streets. |
| 27—Erie and Prospect streets. | 54—Columbus and Leonard streets. |
| 28—Erie and Superior streets. | 56—Columbus and Merwin streets. |
| 31—N. Y., P. & O. Depot. | 65—Broadway and Perry streets. |
| 32—Seneca and Canal streets. | 315—Home Security Co. |
| 34—Central Way and Stone's Levee. | 452—Seneca street. |

SECOND DISTRICT.

- | | |
|--------------------------------------|---------------------------------|
| 41—Water street north of Depot. | 71—Lorain and Jersey streets. |
| 49—Main and Center streets. | 72—Pearl and Bridge streets. |
| 57—Lorain and Smith streets. | 73—Pearl and Franklin streets. |
| 58—W. River and Columbus streets. | 74—Pearl and Lorain streets. |
| 59—Nickel Plate depot, Pearl street. | 75—Taylor and Detroit streets. |
| 61—West River and Main streets. | 76—Bridge and Fulton streets. |
| 62—Willow street bridge. | 78—Lorain and Willett streets. |
| 63—Near gas house. | 79—Detroit and Weddell streets. |
| 64—Center and Washington streets. | 126—Detroit and Pearl streets. |
| 67—Franklin and Waverly streets. | 332—Turn Hall. |
| 68—Detroit and Kentucky streets. | |

THIRD DISTRICT.

- | | |
|-------------------------------------|-------------------------------------|
| 124—Muirson and Walnut streets. | 146—St. Clair and Phelps streets. |
| 125—St. Clair and Waring streets. | 147—St. Clair and Case avenue. |
| 127—Superior and Sterling avenue. | 151—St. Clair and Kirtland streets. |
| 131—St. Clair and Muirson streets. | 152—St. Clair and Willson avenue. |
| 132—81 Oregon street. | 153—Superior and Willson avenue. |
| 134—St. Clair and Canfield streets. | 154—Superior and Hoadley streets. |
| 136—Clinton Park and Lake street. | 156—Payne and Willson avenues. |
| 137—Ross and Hamilton streets. | 157—Payne and Belden street. |
| 141—Davenport and Briggs streets. | 212—Payne and Case avenues. |
| 142—Lake and Alabama streets. | 213—Superior and Wason streets. |
| 143—Lake and Lawrence streets. | 214—Payne and Phelps street. |
| 145—Lake and Wason streets. | |

FOURTH DISTRICT.

- | | |
|-----------------------------------|--------------------------------------|
| 21—Broadway and Forest streets. | 41—Warren and Martin streets. |
| 22—Broadway and Independence st. | 42—Broadway and Union streets. |
| 23—Sykora and Independence sts. | 43—Morgan and Homewood streets. |
| 24—Ackley and Fleet streets. | 44—Tod and Engel avenue. |
| 25—Petrie and Johnston court. | 45—Willson and Francis street. |
| 31—Broadway and Meade avenue. | 51—Union st., and N. Y., P. & O. Ry. |
| 32—Logue and Praha streets. | 52—Tod and Union streets. |
| 33—East Clark and Ballou streets. | 53—Willson and Woodland avenues. |
| 34—Nursery and Finn streets. | 54—Kinsman and Woodland Hills av. |
| 35—Hamm and Petrie streets. | |

FIFTH DISTRICT.

- | | |
|------------------------------------|--------------------------------------|
| 3—Lorain and Birch streets. | 16—Bridge street and Waverly ave. |
| 4—Cook and Harbor streets. | 21—Alum and Lorain streets. |
| 5—Lorain and Orchard streets. | 23—Madison and Gordon avenues. |
| 6—Burton, near Walworth Run. | 24—Lorain and Ridge streets. |
| 7—Gauge and Essex streets. | 25—Madison ave. and Pennington st. |
| 8—Clark avenue and Selden street. | 31—Lorain street and Clark avenue. |
| 12—Clark avenue and Bergen street. | 32—Lorain and Wellington streets. |
| 13—Clark avenue and Alum street. | 34—Madison ave. and Wellington st. |
| 14—Junction and Ravine streets. | 41—Detroit st. and Railway crossing. |
| 15—Detroit and Fruitland avenue. | 42—Detroit st. and Gordon avenue. |

Report of the Police Surgeon.

CLEVELAND, O., January 1, 1898.

Capt. E. A. Abbott, Director of Police :

SIR:—I have the honor to submit the following report as Police Surgeon for the year ending December 31, 1897:

Two deaths occurred during the year, viz: Patrolman Henry Brunner, April 9, 1897, while in active service, and James T. Madden, April 15, 1897, while on pension roll.

The total number of days lost by sickness from all causes during the year was 2275, and by reason of disability 557; total 2832.

CAUSES OF SICKNESS.

Cause of Sicknes.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Alcoholism													
Asthma.....		8		15					6				29
Boils					14			8		8	25	2	57
Bronchitis.....	12	7	27										46
Cold.....	118	136	133	79	33	16	19	10	44	64	72	80	804
Cramps				2		7	25	18	4				56
Diarrhoea.....	5			2	3	3	25	13	25	13	3		92
Diphtheria.....												6	6
Fever, Typhoid.....	4				20	25			10	29	30	7	125
Fever, Malarial							7						7
Heart trouble	4	17			7							23	51
Ivy poison.									7				7
Inflamed leg.....			12	11									23
Injury	50	37	98	26	91	31	20	50	31	31	20	72	557
Jaundice	15	21											36
Kidney complaint.....					8				16				24
La grippe.....	32	17											49
Lumbago				6			7				2	8	23
Malaria.....				8		8	1	17	20				54
Orchitis.....								1	6	13			20
Neuralgia	7			6	3				2		11	7	36
Paralysis						6							6
Pneumonia			3	3	46	40				37	55	63	247
Piles.....								45	7	7			59
Pleurisy	3												3
Rheumatism.....		12	17	43	23	33	27	9		6	43	76	289
Lung trouble										2		15	17
Rheumatic gout.....				1									1
Quinsy.....	19		12	15									27
Sore throat			7	7	10								24
Shingles.....	16											22	38
Stomach trouble.....	19												19
Total	285	255	309	224	258	169	131	171	178	210	261	381	2832
Number of men sick.....	63	62	59	45	33	26	29	34	38	38	43	45	518
Number of professional visits.	100	89	117	80	91	65	53	64	70	71	91	139	1030

Respectfully,

F. B. NORTON, *Police Surgeon.*

POPULATION OF THE CITY.

Census January 1, 1880.....	158,207
Census January 1, 1881.....	166,413
Census January 1, 1882.....	185,851
Census January 1, 1883.....	194,684
Census January 1, 1884.....	200,426
Census January 1, 1885.....	205,446
Census January 1, 1886.....	214,013
Census January 1, 1888.....	230,000
Census January 1, 1889—Estimated.....	250,000
Census July 15, 1890—Taken by the Police.....	269,073
Census January 1, 1893—Estimated.....	310,000
Census January 1, 1894—Estimated.....	325,000
Census September 8, 1895—Taken by the Police.....	330,279
Census January 1, 1897—Estimated.....	360,000
Census January 1, 1898—Estimated.....	380,000

The Cleveland Police Pension Fund.

The following persons constitute the Trustees of this fund :

ROBERT E. McKISSON, Mayor and President.

MINER G. NORTON, Director of Law.

E. A. ABBOTT, Director of Police.

Members of the Force.

LIEUTENANT WILLIAM JENKIN.

PATROLMAN PHILIP SIEGRIST.

PATROLMAN M. H. STOFER.

JOHN VANEK, Secretary.

DEPARTMENT OF POLICE.

The following officers are on the pension roll :

Rank.	Name.	Date of Appointment.	Placed on Pension Roll.
Superintendent.....	Henry Hoehn	May 1, 1866	Aug. 16, 1896.
Deputy Supt.....	James McMahon	May 1, 1866	July 11, 1896.
Captain.....	F. R. Humphrey.....	Sept. 7, 1871.....	Dec. 1, 1894.
Lieutenant	W. A. Sherman.....	Nov. 6, 1872.....	April 1, 1894.
"	Frank Wagner	June 23, 1869.....	July 1, 1894.
"	A. Eitelman.....	May 1, 1866.....	Jan. 26, 1895.
"	John Barrow	Aug. 8, 1867.....	July 1, 1895.
"	Geo. J. Griffin.....	July 12, 1870.....	July 20, 1897.
Detective.....	Francis Douglass.....	Nov. 13, 1871.....	June 4, 1894.
"	Farrell Gallagher.....	Sept. 7, 1871.....	Jan. 15, 1896.
"	A. A. Lawrence	May, 1, 1866.....	Oct. 1, 1897.
Sergeant	John Williams	Jan. 31, 1871.....	June 15, 1892.
"	E. W. Shipman.....	April 20, 1872.....	June 15, 1892.
"	H. A. Cordes	July 29, 1863.....	May 1, 1895.
"	D. W. McCready.....	March 6, 1878.....	January 21, 1897.
"	G. F. Mog	Aug. 3, 1881.....	Feb. 6, 1897.
"	J. C. Denzer.....	Nov. 27, 1878.....	Oct. 1, 1897.
Patrolman.....	Jacob Meyer.....	Nov. 13, 1871.....	March 6, 1888.
"	Charles Eccard.....	May 8, 1868.....	March 6 1888.
"	Richard Dunn.....	May 1, 1866.....	May 1, 1888.
"	Kilian Dienst	May 1, 1866.....	May 1, 1888.
"	John Faron.....	May 1, 1866.....	May 1, 1888.
"	J. P. Bramley.....	Nov. 2, 1871.....	May 1, 1888.
"	Wm. Sorge.....	Nov. 13, 1881.....	May 1, 1888.
"	Geo. W. Willis.....	May 1, 1866.....	May 1, 1888.
"	James McNally.....	March 15, 1887	April 7, 1891.
"	D. J. Cook.....	Sept. 16, 1883.....	July 1, 1891.
"	Wm. Vogel.....	July 21, 1871.....	Jan. 3, 1894.
"	Paul J. Luehrs	April 28, 1872.....	March 5, 1894.
"	S. L. Miller.....	Jan. 25, 1872.....	July 1, 1894.
"	A. C. McElroy.....	July 16, 1889.....	Feb. 6, 1895.
"	Hugh McTigue.....	July 16, 1889.....	March 17, 1895.

The following officers on pension roll concluded :

Rank.	Name.	Date of Appointment.	Placed on Pension Roll.
Patrolman.....	Jacob Ganss.....	May 30, 1866.....	April 6, 1895.
"	W. J. Flanigan.....	May 22, 1889	Dec. 1, 1895.
"	J. T. Bashold.....	Jan. 8, 1875.....	Jan. 1, 1896.
"	P. Haggerty.....	May 1, 1866.....	Jan. 1, 1896.
"	John H. Mangan	Sept. 18, 1875.....	Feb. 1, 1896.
"	George Domino.....	Jan. 17, 1875.....	June 10, 1896.
"	John McCormack.....	April 3, 1874	Dec. 16, 1896.
"	F. J. Lambert	Nov. 2, 1871.....	Jan. 1, 1897.
"	A. J. Marx	Sept. 14, 1870.....	Jan. 16, 1897.
"	Christ Hennis.....	Sept. 23, 1879	April 22, 1897.
"	B. Rosenfelder	May 1, 1866.....	May 1, 1897.
"	F. C. Lauser.....	Nov. 23, 1872.....	June 1, 1897.

The following officers were retired from active service and were placed on the Police Pension Roll in 1897 :

Patrolman No. 99, F. J. Lambert, having served more than the required twenty-five years.

Patrolman No. 6, A. J. Marx, having served more than the required twenty-five years.

Sergeant D. W. McCready, on account of disability.

Sergeant G. F. Mog, on account of disability.

Patrolman No. 44, Christ Hennis, on account of disability.

Patrolman No. 12, B. Rosenfelder, having served more than the required twenty-five years.

Patrolman No. 100, F. C. Lauser, on account of disability.

Lieutenant Geo. J. Griffin, having served more than the required twenty-five years.

Detective A. A. Lawrence, having served more than the required twenty-five years.

Sergeant J. C. Denzer, on account of disability.

OBITUARY.

Henry Brunner, Patrolman No. 2; appointed March 11, 1882; died April 9, 1897.

James T. Madden, Patrolman on Pension Roll, appointed December 22, 1885; retired on Pension Roll, February 1, 1896; died April 15, 1897.

DEPARTMENT OF POLICE.

REPORT OF THE RESOURCES AND DISBURSEMENTS
OF THE CLEVELAND POLICE PENSION FUND.

FOR THE YEAR ENDING DECEMBER 31, 1897.

1897.	RESOURCES.		
Jan. 1.....	Balance.....	\$.....	\$ 96,051 69
" 1.....	Interest from Society for Savings, 6 mo.....	543 96	
" 1.....	Interest from Citizens Savings & Loan Ass'n. 6 mo.	402 10	
" 1.....	Interest from Savings & Trust Co. 6 mo.....	417 60	
" 1.....	Interest from Cleve'and Trust Co. 6 mo.....	417 38	
" 6.....	Assessment from Pay-Roll for December, 1896.....	169 39	
" 11.....	Donation from the United Banking & Savings Co...	100 00	
" 21.....	Marshal fees in Criminal Court Sept. and Dec. term.	121 65	
" 21.....	Officers' fees in Criminal Court, Sept. and Dec. term	723 00	
" 28.....	From Wm. H. Ritter, Frank Leonard, L. J. Rabshaw, F. L. Searles and M. Roskopf as special policemen.....	25 00	
Feb. 1.....	Marshal and officers' fees, in Police Court, State cases for November.....	91 76	
" 1.....	Marshal and officers' fees, in Police Court, State cases for December.....	93 52	
" 1.....	Advanced on Foreign Insurance tax for 1896.....	2,500 00	
" 4.....	Assessment from Pay-Roll for January.....	178 74	
" 24.....	15 per cent. of a reward from Det. J. F. Sprosty.....	1 50	
" 24.....	From Chas. O. Adams, Jos. Trefney and E. O'Malley as special policemen.....	15 00	
Mar. 1.....	Interest on \$10,000 City bonds, 6 months.....	200 00	
" 8.....	Marshal and officers' fees, Police Court, City cases for January.	139 25	
" 8.....	Assessment from Pay-Roll for February.....	180 26	
" 24.....	From Patrolman Chas. Schroeder, fine.....	20 00	
" 24.....	From H. H. Buchtel as special policeman.....	5 00	
" 29.....	Donation from the Western Reserve Nat. Bank.....	15 00	
" 29.....	From Thos. J. Carlen, fine.....	10 00	
April 7.....	From Foreign Insurance tax for 1896.....	34,910 46	
" 7.....	Assessment from Pay-Roll for March.....	180 26	
" 10.....	15 per cent. of a reward from Officers Sprosty and Granger	9 00	
	Forward.....		

POLICE PENSION FUND.—Continued.

1897,	RESOURCES.		
	<i>Forward</i>	\$.....	
April 10.....	15 per cent. of a reward from Patrolman M. O'Hara.	1 50	
" 10.....	From Patrolman Frank Ganss, fine... ..	10 00	
" 10.....	From W. Bendel and E. Pfau as special policemen..	10 00	
" 20.....	15 per cent. of a reward from Det. Sprosty and Mo-Millan.....	9 00	
" 20.....	15 per cent. of a reward from Pat. Alfred Smith....	15 00	
" 20.....	From D. A. Park, H. A. Walton and J. C. Silver-wood, as special policemen.....	15 00	
" 27.....	From Pat. Albert Ritzi, fine.....	10 00	
" 27.....	From Pat. P. M. Flick, fine.....	10 00	
" 27.....	From Pat. Joseph Horazdovsky, fine.....	10 00	
May 4.....	Interest on City Notes, 6 months.....	175 00	
" 6.....	Assessment from Pay-Roll for April.....	179 61	
" 24.....	From Pat. Wm. Guenther, fine.....	25 00	
" 24.....	From Pat. Chas. L. Seelye, fine.....	25 00	
" 24.....	From Pat. J. H. Stedman, fine.....	10 00	
" 24.....	From Pat. G. M. Wolke, fine.....	10 00	
" 24.....	From Christ. Belky, Jacob Tammen and Wm. Ber-rigan, as special policemen ..	15 00	
" 24.....	From Lieut. Stein, for an old wagon, 2d Precinct....	2 00	
" 24.....	15 per cent. of a reward from Pat. Fred Fischer....	1 50	
" 29.....	Marshal and officers' fees, Police Court, State cases for January.....	46 00	
" 29.....	Marshal and officers' fees, Police Court, State cases for February.....	46 43	
June 3.....	Marshal and officers' fees, in Criminal Court, April term.....	749 42	
" 7.....	Assessment from Pay-Roll for May.....	182 46	
" 7.....	From Pat. Albert Ritzi, fine.....	25 00	
" 7.....	From F. A. Williams, as special policeman.....	5 00	
" 9.....	Marshal and officers' fees, Police Court, City cases for February	195 37	
" 9.....	Marshal and officers' fees, Police Court, City cases for March.....	196 65	
	<i>Forward</i>.....	.....

DEPARTMENT OF POLICE.

POLICE PENSION FUND.—Continued.

1897,	RESOURCES.		
	<i>Forward</i>	\$.....	
June 9.....	Marshal and officers' fees, Police Court, City cases for April.....	230 12	
" 29.....	From Jos. Ganeau and M. J. Schmitz, as special policemen.....	10 00	
" 29.....	15 per cent. of a reward from Det. Chas. O. Klaue..	2 25	
" 30.....	Interest on moneys in City Treasurer's hands.....	170 48	
July 1.....	Interest from Society for Saving, 6 months.....	554 84	
" 1.....	Interest from Citizens' Savings & Loan Association, 6 months.....	410 14	
" 1.....	Interest from The Savings & Trust Co., 6 months...	308 34	
" 1.....	Interest from The Cleveland Trust Co., 6 months....	308 34	
" 7.....	Assessment from Pay Roll for June.....	182 98	
" 21.....	Marshal and officers' fees, in Police Court, City cases for May.....	656 98	
" 21.....	Marshall and officers' fees, in Police Court, City cases for June.....	458 95	
" 21.....	Marshal and officers' fees, in Police Court, State cases for March.....	49 67	
" 21.....	Marshal and officers' fees, in Police Court, State cases for April.....	84 26	
" 26.....	Marshal and officers' fees, in Criminal Court, April term.....	339 52	
" 26.....	Marshal and officer's fees, in Police Court, State cases for May.....	52 44	
" 26.....	Marshal and officers' fees, in Police Court, State cases for June.....	102 27	
" 26.....	From D. O'Brien, D. E. Herbert, F. W. Dorman and L. A. Moeuch, as special policemen.....	20 00	
" 26.....	From Pat. Joseph Sweeney, fine.....	10 00	
" 26.....	15 per cent. of a reward from Pat. J. T. Shibley.....	75	
" 26.....	15 per cent. of a reward from Pat. L. Sebelin.....	90	
Aug. 5.....	Assessment from Pay Roll for July	182 87	
" 11.....	From Pat. C. A. De Hondt, fine.....	20 00	
" 11.....	From Pat. John Daus, fine.....	10 00	
" 11.	From Pat. Ephraim Brown, fine	10 00	
	<i>Forward</i>.....	.....

POLICE PENSION FUND.—Continued.

1897.	RESOURCES.		
	<i>Forward</i>	\$.....	
Aug. 11.....	15 per cent. of a reward from Pat. H. Prange.....	1 50	
" 21.....	From Pat. F. B. Sanford, fine.....	25 00	
" 24.....	From Pat. C. Weisbarth, fine.....	10 00	
" 24.....	From Wm. Mensner, as special policemen.....	5 00	
" 27.....	Marshal and officers' fees. in Police Court, City cases for July.....	341 35	
Sept 7.....	Assessment from Pay Roll for August.....	183 26	
" 13.....	Marshal and officers' fees, Police Court, City cases for August.....	422 07	
" 13.....	From Pat. C. L. Meacham, fine	25 00	
" 13.....	From Pat. W. R. Hayman, fine.....	10 00	
" 13.....	15 per cent. of a reward from Det. A. A. Lawrence..	1 50	
" 13.....	From W. Van Ornum, Jos. Bush and Aug. Keller, as special policemen.....	15 00	
" 13.....	Donation from Mr. Payne.....	5 00	
" 24.....	From Aug. Swese, Wm. E. Zehner and Wm. Felt, as special policemen.	15 00	
" 24.	15 per cent. of a reward from Det. Watt.....	3 75	
" 24.....	15 per cent. of a reward from Det. Klaue and Pat. Gilbride.	4 50	
" 27.....	Interest on \$10,000 City Bonds, 6 months.....	200 00	
Oct. 4.....	Marshal and officers' fees, Police Court, State cases for July.....	99 78	
" 4.....	Marshal and officers' fees, Police Court, State cases for August.....	53 58	
" 6.....	Assessment from Pay-Roll for September.....	183 21	
" 11.....	Marshal and officers' fees, Police Court, City cases for September.....	370 33	
" 19.....	From Thos. Murtaugh and Ed. Peebles as special policemen.....	10 00	
" 19.....	From Pat. C. L. Meacham, fine.....	5 00	
" 19.	From Pat. J. J. Richards, fine.....	10 00	
" 29.....	From Pat. Wm. Chappel, fine.....	5 00	
" 29.....	From Pat. Geo. M. Wolke, fine.....	10 00	
	<i>Forward</i>.....	.....

POLICE PENSION FUND.—Continued.

1897.	RESOURCES.		
	<i>Forward</i>	\$.....	
Oct. 29.....	From Pat. L. C. Ruggles, fine.....	5 00	
" 29.....	From Alois Zak and M. V. Jacobson as special policemen.	10 00	
" 29.....	15 per cent. of a reward from Det. Doran and Watt.	3 75	
Nov. 5.....	Assessment from Pay-Roll for October.....	182 94	
" 8.....	Interest on City notes, 6 months.....	87 50	
" 16.....	Marshal and officers' fees, Police Court, City cases for October	392 00	
" 20.....	Marshal and officers' fees, Police Court, State cases for September.....	52 80	
" 20.....	Marshal and officers' fees, Police Court, State cases for October.....	79 84	
" 27.....	From sale of stolen and unclaimed property.....	271 05	
" 27.....	From E. L. Sitts and Chas. Ebner as spec. policemen	10 00	
" 27.....	From Pat. C. H. McMasters, 15 per cent. of a reward.....	1 50	
" 27.....	From sale of old brass in Fifth Precinct.....	4 65	
Dec. 7.....	Assessment from Pay-Roll for November.....	182 24	
" 8.....	Marshal and officers' fees, in Police Court, City cases, November.....	353 73	
" 8.....	From Joseph Quigley as special policeman.....	5 00	
" 8.....	From Sergt. E. F. Washington, 15 per cent. of a reward.....	7 50	
" 8.....	From Pat. C. S. Smith, 15 per cent. of a reward.....	1 50	
" 28.....	From Jack Mints as special policeman... ..	5 00	
" 30.....	From City Treasurer, interest on moneys in his hand	111 62	
	Total Resources.....	.....	\$147,460 02

POLICE PENSION FUND.—Continued.

1897.	DISBURSEMENTS.		
	<i>Forwarded</i>	\$.....	\$147,460 02
Jan. 6.....	Pension Pay Roll for December, 1896.....	1,866 67	
" 6.....	For rent of Vault.....	5 00	
Feb. 4.....	Pension Pay Roll for January.....	1,985 00	
Mar. 5.....	" " February.....	2,092 50	
April 7.....	" " March.....	2,101 67	
May 6.....	" " April.....	2,091 67	
" 6.....	To Mrs. H. Brunner on the death of Pat. Brunner..	500 00	
" 6.....	To Mrs. Jas. T. Madden on the death of Pat. Mad- den.....	500 00	
June 7.....	Pension Pay Roll for May.....	2,151 67	
July 7.	" " June	2,201 67	
Aug. 5.....	" " July.....	2,225 67	
Sept. 7.....	" " August....	2,261 67	
Oct. 5.....	" " September	2,261 67	
Nov. 5.....	" " October	2,376 67	
Dec. 7.....	" " November.....	2,376 67	
" 31.....	" " December.....	2,376 67	
		-----	29,374 87
	Balance January 1st, 1898.....	.....	\$118,085 15

POLICE PENSION FUND.—Continued.

RECAPITULATION.

RESOURCES.		
Balance January 1, 1897.....	\$.....	\$ 96,651 69
Marshal fees in Police Court, City cases.....	1,410 78	
Officers' fees in Police Court, City cases.....	2,346 00	
Marshal fees in Police Court, State cases.....	400 91	
Officers' fees in Police Court, State cases.....	451 44	
Marshal fees in Criminal Court.....	300 59	
Officers' fees in Criminal Court.....	1,633 00	
Commissions of Special Policemen.....	195 00	
Donations.....	120 00	
Interest on moneys invested.....	4,307 30	
Fines of officers.....	320 00	
Fifteen per cent. of rewards.....	73 55	
Assessments from Pay-Rolls.....	2,168 22	
Sale of stolen and unclaimed property.....	271 08	
Foreign Insurance Tax.....	37,410 46	51,408 33
Total.....		\$ 147,460 02
DISBURSEMENTS.		
Pay-Rolls of officers on Pension Roll.....	\$ 28,369 87	
Final Pensions on death of officers.....	1,000 00	
For safe keeping of bonds and notes.....	5 00	29,374 87
Balance January 1, 1898.....		\$ 118,085 15

POLICE PENSION FUND—Concluded.

RECAPITULATION.

ASSETS.		
10 City of Cleveland bonds due March 1, 1900, at \$1,000.....	\$ 10,000 00	
Cash deposited at the Society for Savings.....	35,297 42	
Cash deposited at the Citizens' Savings and Loan Association.....	26,918 01	
Cash deposited at the Savings and Trust Co,.....	21,725 94	
Cash deposited at the Cleveland Trust Co,.....	21,725 72	
Cash in the City Treasury.....	2,418 06	
Total .....	.....	\$118,085 15

*JOHN VANEK,**Secretary of Police.*

CLEVELAND, January 18, 1898.

We have personally examined the foregoing report and compared the same with the books of the Police Pension Fund, and do hereby certify the same to be correct.

WM. JENKINS, LIEUT.	{	<i>Committee on Finance.</i>
M. A. STOFER,		
PHIL SIEGRIST.		

DEPARTMENT OF POLICE.
HEALTH DIVISION.

OFFICERS.

EDWARD A. ABBOTT,

Director of Police.

DR. JOHN L. HESS,

Health Officer.

FRANK COMBES,

Secretary.

BERTRAM ROBINSON,

Inspector of Plumbing and Sewers.

FRANCIS J. PECK,

Food Inspector.

SANITARY PATROLMEN.

ARMSTRONG, A. T..... Wards 3, 4, 5 and 8, and office.
 BARTEL, C. H... Wards 32, 41 and part of 40, and Garbage Boat.
 BEAKEL, H. F..... Wards 26 and 27.
 BROWN, T.W., Assistant Plumbing and Sewer Inspector (detailed.)
 BUBB, J. C..... Wards 28, 29 and 30.
 DWYER, J. W..... Wards 18 and 19.
 HOLMDEN, H. C..... Office.
 JONES, A. G., Assistant Plumbing and Sewer Inspector (detailed.)
 KRASS, Jacob..... Wards 1, 2, 10 and 11.
 McLAREN, Jas..... Smoke Inspector
 DAVID, J. J..... Wards 22 and 23.
 NEWCOMB, F. E..... Wards 20 and 21.
 NEVINS, W. R..... Wards 31, 33 and 34.
 PORT, Wm..... Wards 12, 13, 14, 15, 16 and 17.
 REDINGER, E. W..... Wards 37, 38 and part of 42.
 SCHNAUFFER, F..... Wards 36, and parts of 40 and 42.
 STEARNS, C. H..... Wards 35, 39 and part of 42.
 SHANNON, P..... Wards 6, 7 and 9.
 VOGT, GEO..... Wards 24 and 25.
 WHITMAN, L. C..... Special.

Assistant Inspectors of Plumbing.

D. K. CAINE,
 P. H. LEVISON,

M. F. RYAN,
 S. C. ANSELM.

DISTRICT PHYSICIANS.

RULE IV.

DUTIES OF THE DISTRICT PHYSICIANS.

SECTION 2. They shall have an office located within their respective districts, and to the satisfaction of the Director of Police, and keep regular office hours, when and where they can be found by all persons applying to them for treatment, such hours to be from 9 o'clock a. m. to 10 o'clock a. m., and from 3 o'clock p. m. to 4 o'clock p. m. of each day, and such other hours as may be necessary to provide for persons applying for treatment; such offices to have a distinct sign upon them with the words "District Physician," in plain view.

DISTRICT PHYSICIANS.

- District No. 1, A. E. CHATFIELD, M.D., Wards 2, 3, 4 and 5-
- District No. 2, T. W. RANSON, M.D., Wards 6, 8 and 9.
- District No. 3, E. MURRAY, M.D., Wards 1, 10, 11 and 12.
- District No. 4, T. S. FIELD, M.D., Wards 7, 18 and 19.
- District No. 5, T. B. BRECK, M.D., Wards 13, 14, 15, 20 and 21.
- District No. 6, A. V. FRIED, M.D., Wards 16, 17, 22 and 23-
- District No. 7, R. W. HERBKERSMAN, M.D., Wards 24 and 25.
- District No. 8, E. C. GARVIN, M.D., Wards 26 and 27.
- District No. 9, F. A. HANDRICK, M.D., Wards 28, 29, 30 and 41.
- District No. 10, W. H. LUCAS, M.D., Wards 31, 32, 33 and 34.
- District No. 11, M. FRANCISCI, M.D., Wards 35, 36 and 37.
- District No. 12, F. HONECKER, M.D., Wards 38, 39, 40 and 42.

Report of the Health Officer.

CLEVELAND, O., January 1, 1898.

Hon. E. A. Abbott, Director of Police:

DEAR SIR:—I have the honor to herewith submit to you the report of the Public Health Division of the Department of Police for 1897. During the past year every possible effort has been made to keep the expenditures of this Division to the lowest possible limit consistent with the efficient administration of affairs. The Secretary's report will show the total disbursements of the year to be \$39,761.66, expended in the following manner: For general purposes, \$36,850.95; for the removal of garbage, \$2,154.46; for bath house purposes, \$39.37; for Plumbers Examining Board, \$158.33; for Food Inspector's office, \$504.55; making a total of \$39,761.66, leaving a balance on hand January 1, 1898, of \$2,316.89. The total expense account for the year 1897 was \$334.06 less than for the year 1896.

DEATH STATISTICS.

The total number of deaths for the year 1897 was 5,007. The death rate is estimated on a population of 350,000, which is an increase of 20,000 over the estimated population of 1896. During the year 1896 4,859 persons of Cleveland died, showing an increase in the number of deaths for 1897 of 148 over those of 1896, yet it is with a great deal of satisfaction that I am able to report to you that the death rate has been reduced from 14.71 per 1,000 for 1896 to 14.30 per 1,000 for 1897.

BIRTH STATISTICS.

The total number of births reported to this Division for the year 1897 was 9,135, an increase over those reported for 1896 of 208.

The tables appended to this report contain information as to the color, sex, nativity and age of parents and give the comparative number of births for each month.

CONTAGIOUS AND INFECTIOUS DISEASES.

During the past year this Division has been enforcing the laws pertaining to contagious and infectious diseases, even more vigorously than during the year 1896. I have made an extraordinary effort to secure the co-operation of the physicians and midwives of our city in reporting cases of contagious and infectious diseases, and am pleased to state that we are now receiving a much more satisfactory return than heretofore. During the year 1897 there was reported to this office 256 cases of Typhoid Fever with 73 deaths from the same cause; 379 cases of Scarlet Fever with 20 deaths from the same cause; 456 cases of Diphtheria with 80 deaths from the same cause; 93 cases of Membranous Croup with 51 deaths from the same cause; 1958 cases of Measles with 8 deaths from the same cause; 16 cases of Erysipelas with 9 deaths from the same cause; 3 cases of Puerperal Fever reported with 5 deaths from the same cause; 122 cases of Whooping Cough with 25 deaths from the same cause; 37 cases of Chicken Pox with no deaths.

The above number of cases of contagious diseases, in my judgment is approximately correct with the exception of measles. I feel safe in stating that not more than one half of the cases of measles in our city have been reported to this office. This is due to the fact that this disease has been of a rather mild order, and the people did not consider it necessary to call in a physician, consequently the cases were not reported as required by ordinance.

I wish at this point to express my appreciation of the manner in which the school authorities are co-operating with our Division. Every possible effort has been made by the Director

and Superintendent of Schools to establish such regulations as have been suggested for protecting the school children from exposure to contagion.

Under this head I might also say that the Division has furnished gratuitously the administration of anti-toxin to the indigent poor of our city with most satisfactory results. Where the District Physicians have been able to attend cases of Diphtheria within 36 hours after the development of symptoms there has not been a single case of death when anti-toxin was administered.

BATH HOUSES.

The year 1897 has been one of decided success for the public bath houses. The number of bathers at the Kirtland street free public bath house was estimated at 20,000. The number of bathers at the Edgewater free public bath house was estimated at 34,000. The service rendered by the bath house keepers to the people using these popular resorts has been generally satisfactory. I take pleasure in reporting to you that there has not been a single accident at either of these places. The immense patronage of these two public bath houses has demonstrated that the free public bath operated by the city is very popular and useful.

SMOKE.

This division has been active during the past twelve months in attempting to enforce the anti-smoke ordinance. We made three arrests under this ordinance, the cases being brought to trial in the Police Court.

The Arcade company was made the principal defendant in these. The test case was on trial for a period of five months, at the end of which the Police Judge declared the ordinance unconstitutional. At the present time we are without an ordinance to prohibit manufacturers from permitting smoke and smut to be scattered broadcast over the city. A member of the Council has introduced a new ordinance, however, which, we trust, will meet all objections of the Court and place the division in a position to proceed with the suppression of this nuisance, thereby saving thousands of dollars annually to citizens and merchants.

GARBAGE.

It is with much satisfaction that I report to you that a contract has been awarded for the collection and disposal of the garbage and refuse of our city. Under the terms of the contract the new system is to be ready for operation about the middle of April. This subject is one which will require a great deal of careful attention by the Public Health Division in the future. An ordinance has been introduced regulating the collection of garbage, which I think will be satisfactory to the people and will greatly improve the general sanitary condition of our city, at the same time eliminating from our water supply a prolific source of contamination. This subject has been under consideration by the city for a great many years, and the citizens are to be congratulated on its final disposition.

PLUMBING INSPECTOR'S DEPARTMENT.

This section of our division is now better equipped for handling the work submitted to it than ever before. We have been fortunate in securing the appointment of two additional plumbing inspectors, enabling the force to perform its work without delay and annoyance to plumbers. The number of jobs and character of work performed by the Plumbing Inspector and his assistants are made known in the table, under this head.

GENERAL.

The management of the Food Inspector's office has continued to be most efficient. The character of the work performed in this department is varied and of unquestioned importance. It would be well if we had a broader law, permitting the Food Inspector a wider range of investigation and extended jurisdiction. The laws pertaining to the milk inspection are wholly inadequate, in that they do not permit an inspection of the dairy supplying milk to the city, and do not give the Health Division sufficient power for bringing prosecutions against persons furnishing the city an inferior quality of milk.

The District Physicians merit the highest commendation for the faithful manner in which they have performed their work. All persons applying to them for professional service have been given the closest possible attention and furnished gratuitously with medicine. Some of our districts are entirely too large and relief should be given by the appointment of additional physicians. Some of the district physicians have been required to make as many as 275 calls per month. I would earnestly recommend the appointment of four additional district physicians, in order to meet the demands made upon the Division.

For several years the subject of establishing a city Department of Bacteriology has been agitated by the various medical societies of our city. This question is one which I believe should receive most earnest consideration by the City Council in order that provisions may be made whereby such a department may be created at an early date. The City of Cleveland is the only large city of the United States which does not possess such a Laboratory. Such an institution would be of inestimable value in rapidly determining the character of contagious and infectious diseases, thereby permitting a quarantine to be quickly established in cases of contagion or infection. For the purpose of informing myself on this subject I have corresponded with the Health Authorities of fifteen of the largest cities of the United States inquiring if they had such a department in their city. I have received affirmative answers in each case so that today our city stands alone among the leading cities of the country in this line of scientific work.

I would earnestly request that you use every endeavor to secure for our City the establishment of a Department of Bacteriology which I am confident will more than compensate for the necessary outlay by the additional safeguards it will place about the people.

In conclusion I desire to express my gratitude and appreciation for courtesies extended by yourself and for assistance rendered by the employes of the Public Health Division.

I have the honor to remain,

Yours very truly,

J. L. HESS, M.D.,

Health Officer.

SECRETARY'S REPORT.

Dr. John L. Hess, Health Officer:

DEAR SIR:—I have the honor to herewith respectfully submit to you the Twenty-fifth Annual Report of the Secretary of the Public Health Division, Department of Police, City of Cleveland, for the year ending December 31st, 1897.

FINANCES.

RECEIPTS.

Balance on hand January 1st, 1897.....	\$ 1,570 81
City Tax Levy.....	36,685 74
Permits to sell milk	1,745 00
Poultry and Slaughter Licenses.....	1,270 00
Death Certificates.....	149 00
Birth Certificates.....	3 00
Livery Licenses from City Clerk.....	87 00
Plumbers' Licenses.....	568 00
	<hr/>
Total receipts.....	\$42,078 55

DISBURSEMENTS.

(a) For general expenses.....	\$36,850 95
(b) For garbage expenses.....	2,154 46
(c) For bath-house expenses	93 37
(d) For Plumbers' Examining Board...	158 33
(e) For Food Inspector's office.....	504 55
	<hr/>
Total disbursements	\$39,761 66
	<hr/>
Balance on hand January 1st, 1898.....	\$ 2,316 89

HEALTH DIVISION.

753

The expenses for this Division were incurred as follows:

(a) GENERAL EXPENSES.

Officers' and Patrolmen's salaries.....	\$33,846 12
Drugs and Medicines.....	1,067 32
Rent of Telephone.....	151 63
Office carpet.....	68 18
Printing Annual Report for 1896.....	72 97
Printing garbage specifications and advertising for bids	79 75
Chief Plumbing Inspector's trip to Convention of Master Plumbers' Association at New York City.	30 00
Health Officer's trip to Convention of American So- ciety of Municipal Improvements at Nashville, Tenn	60 00
Miscellaneous expenses.....	1,474 98.
Total.....	<u>\$36,850 95</u>

(b) GARBAGE EXPENSES.

Removal of garbage from January 1st, 1897, to Janu- ary 1st, 1898, at \$40 per week, (52.14+weeks)...	\$ 2,085 66
Disinfectants	68 80
Total.....	<u>\$ 2,154 46</u>

(c) BATH-HOUSE EXPENSES.

Three barrels of coal oil	\$ 11 12
Supplies.....	11 25
Repairs and manual labor.....	6 00
Water connections at Edgewater Park Free City Bath House.....	65 00
Total.....	<u>\$ 93 37</u>

(d) PLUMBING BOARD EXPENSES.

Printing	\$ 56 15
Furniture and furnishings.....	41 75
Material and supplies.....	60 43
Total.....	<u>\$ 158 33</u>

DEPARTMENT OF POLICE.

(c) FOOD INSPECTOR'S EXPENSES.

Chemicals and supplies.....	\$ 252 34
Apparatus and repairs	252 21
Total.....	\$ 504 55

The following table shows the amounts expended by the Public Health Division for twenty-five years :

1873.....	\$28,416 14
1874.....	25,056 58
1875.....	19,549 38
1876.....	16,168 65
1877.....	14,283 18
1878.....	12,493 71
1879.....	12,036 52
1880.....	12,908 95
1881.....	16,030 99
1882.....	20,329 32
1883.....	22,651 73
1884.....	24 41 07
1885.....	21,354 13
1886.....	27,206 67
1887.....	23,678 67
1888.....	28,078 82
1889.....	32,050 39
1890.....	33,933 76
1891.....	27,275 13
1892.....	34,115 07
1893.....	36,922 22
1894.....	41,616 06
1895.....	38,906 35
1896.....	40,095 72
1897.....	39,761 66

Economy in every particular has been our constant practice during the entire year.

MORTALITY STATISTICS.

The total number of deaths in the City of Cleveland during the year 1897 was 5,007 an increase of 148 as compared with 1896, but with an increase of population over 1896 of 20,000. For information as to age, color, sex, nativity, cause of death and social relations of the deceased you are respectfully referred to the tables appended.

BIRTH STATISTICS.

The number of births in the City during 1897 was 9,135, being 208 more than occurred in 1896. The tables annexed to this report will inform you as to color, sex, nativity, age of parents and the comparative number of births monthly, to which you are respectfully referred.

MILK LICENSES.

Milk permits issued during the year 1897 were.....	1,745
To persons selling from wagons.....	603
To persons selling from stores and houses.....	1,142

A fee of one dollar (\$1.00) was charged for each permit.

SLAUGHTER LICENSES.

During the year one hundred and twenty-seven (127) licenses were issued to slaughter stock, dress poultry, render fats, to engage in the manufacture or production of fertilizers or glue, and the cleaning or rendering of intestines. For each a fee of ten dollars (\$10.00) was collected.

BIRTH AND DEATH CERTIFICATES.

There were issued during the year one hundred and forty-nine (149) death certificates and (3) birth certificates; for which a fee of one dollar (\$1.00) each was charged. Also during the year there were fifty (50) free death certificates and thirteen (13) free birth certificates issued to the widows and orphans of soldiers of the late war.

DEPARTMENT OF POLICE.

PERMITS TO REMOVE BODIES.

During 1897 four hundred and thirty-four (434) free permits were issued to remove bodies from this City to other cities and localities.

PRIVY VAULTS.

Free permits were granted during the year for building of one hundred and ninety-four (194) privy vaults. These were built in accordance with plans and specifications furnished by this office.

PLUMBERS' LICENSES.

In accordance with Section 4 of the State law "To Promote the Public Health and Regulate the Sanitary Construction of House-drainage and Plumbing," passed April 21, 1896 (O. L. Vol. 92, page 263), the sum of \$568.00 was collected for licenses during the year 1897 and deposited with the City Treasurer to the credit of the Sanitary Fund. Said deposit being in accordance with Section 8 of said law.

LIVERY LICENSES.

In pursuance of the State law governing livery stables, passed April 18, 1893 (Local O. L. 90, page 110), there were eighty-seven (87) permits issued in 1897 to the City Clerk by this office on which he granted licenses, collecting a fee of one dollar (\$1.00) each, the same being credited to the Sanitary Fund, as per provision of Section six (6) of said law.

NIGHT SOIL FUND FOR 1897.

RECEIPTS.

Balance in Night Soil Fund January 1st, 1897	\$	309	28
10,934 cubic yards of night soil, at \$1.90		20,774	60
Discrepancy of half cents			15
Total		\$21,084	03

HEALTH DIVISION.

757

Total receipts..... \$21,084 03

DISBURSEMENTS.

10,851½ cubic yards removed, at \$1.90		
per yard.....	\$20,617	85
Discrepancy of half cents.....		26
Rebates, 2 yards at \$2.12.....	\$ 4	24
79½ yards at \$1.90.....	151	05
Discrepancy of half cents	07	155 36
Total	\$20,773	47
Balance on hand January 1st, 1898.....	\$	310 56

The statistical tables accompanying this report contain the full data regarding the Relief of the Poor, Contagious Diseases, Births, Nuisances abated, the Mortality of the City, etc. The reports of the Food Inspector, Inspector of Plumbing and Sewers, Smoke Inspector, United States Weather Bureau of Cleveland and Superintendent of Markets are also appended.

Thanking the Director and you for many uniform courtesies,
I am, Yours respectfully,

FRANK COMBES,

• Secretary.

TABLE No. 1.
RELIEF TO THE POOR.
REPORT OF DISTRICT PHYSICIANS FOR 1897.

District No.	District Physicians.	No. of Prescriptions.	No. of Visits.	No. of Patients.	Nativity.						No. of Deaths.
					U.S. and Canada.	Ger-many.	Ireland.	Bohe-mia.	Other For-eigners.	England.	
1.....	Dr. A. E. Chatfield.....	2,274	2,386	742	475	66	114	2	55	30	1
2.....	Dr. T. W. Ranson.....	658	959	256	75	64	84	16	8	9	7
3.....	Dr. E. Murray.....	444	1,001	475	261	17	36	1	153	17	16
4.....	Dr. T. S. Field.....	240	436	193	99	40	14	.....	36	4	8
5.....	Dr. T. B. Breck.....	373	361	110	65	25	3	8	9	.....	2
6.....	Dr. A. V. Fried.....	672	1,150	422	154	86	36	33	107	6	5
7.....	Dr. F. W. Herbkersman.....	126	329	178	20	23	16	80	37	2	8
8.....	Dr. C. E. Garvin.....	1,281	1,401	397	257	12	47	7	72	2	8
9.....	Dr. F. A. Handrich.....	582	432	422	220	28	149	1	21	3	8
10.....	Dr. W. H. Lucas.....	881	618	252	16	38	168	5	20	5	6
11.....	Dr. M. Francisel.....	893	902	307	168	91	15	.....	31	2	15
12.....	Dr. F. H. Honecker.....	329	988	199	105	66	11	10	5	2	4
		8,753	10,963	3,963	1,906	556	693	163	554	82	88

DEPARTMENT OF POLICE.

TABLE No. 2.
DEATHS REPORTED IN PUBLIC INSTITUTIONS.

Year ending December 31, 1897.	Male.	Female.	Total.
Lakeside Hospital.....			
Charity Hospital.....	9	20	29
City Hospital.....	48	21	69
Homœopathic Hospital.....	18	10	28
Cleveland Hospital for Insane.....	22	13	35
St. John's Hospital.....	12	9	21
St. Alexis' Hospital.....	26	12	38
St. Clair Hospital.....		2	2
Cleveland General Hospital.....	8	7	15
Deaconess Hospital.....	3	3	6
Small-Pox Hospital.....			
German Hospital.....		2	2
Home for the Aged Poor.....	7	8	15
Maternity Home.....	2	1	3
Eliza Jennings Home.....		2	2
Industrial Home.....			
Trinity Church Home.....			
Montefiore Home.....			
Altenheim Home.....			
Bethany Home.....			
Jones' School and Home.....			
Home for Aged Women.....		2	2
House of the Good Shepherd.....		2	2
Invalids' Home.....			
St. Mary's Asylum.....			
St. Joseph's Asylum.....		4	4
Monroe Street Orphan Asylum.....			
St. Ann's Infants' Asylum.....	42	25	67
Jewish Orphan Asylum.....		2	2
Cleveland Protestant Orphan Asylum.....			
Infants' Rest.....	3	3	6
Children's Fresh Air Camp.....			
Other Public Institutions.....	7		7
United States Marine Hospital.....	4	1	5
Total	211	149	360

TABLE No. 3.
CASES OF CONTAGIOUS DISEASES REPORTED
DURING 1897.

Mumps.	Chicken Pox.	Small Pox.	Varioloid.	Mem. Croup.	Whooping Cough.	Puerperal Fever.	Erysipelas.	Measles.	Typhoid Fever.	Scarlet Fever.	Diphtheria.
3	37	.....	.....	93	122	3	16	1,958	256	379	456

DEATHS IN 1897 FROM CONTAGIOUS DISEASES.

Mumps.	Chicken Pox.	Small Pox.	Varioloid.	Mem. Croup.	Whooping Cough.	Puerperal Fever.	Erysipelas.	Measles.	Typhoid Fever.	Scarlet Fever.	Diphtheria.
.....	51	25	5	9	8	73	20	80

TABLE NO. 4.
BIRTHS AND DEATHS BY MONTHS.

BIRTHS—1897.		DEATHS—1897.	
January	945	January	350
February.....	746	February.....	410
March.....	756	March.....	423
April	731	April	409
May.....	753	May	377
June.....	718	June.....	342
July.....	815	July.....	610
August.....	806	August	477
September.....	758	September.....	403
October.....	710	October.....	414
November	733	November	360
December	664	December	432
Total 9,135		Total 5,007	

TABLE No. 5.
NATIVITY OF DECEDENTS.

Year ending December 31, 1897.	Male.	Female.	Total.
Cleveland	1217	1102	2319
Other parts of the United States.....	560	508	1068
Germany	317	274	591
Ireland.....	136	171	307
Canada	31	20	51
England.....	80	85	165
Bohemia.....	98	70	168
Poland	19	11	30
Hungary.....	10	11	21
Other Foreigners.....	129	87	216
Not Stated.....	25	20	45
Unknown.....	19	7	26
Total.....	2641	2366	5007



TABLE No. 8.

TOTAL DEATHS FROM ZYMOTIC DISEASES AND TOTAL DEATHS FROM ALL CAUSES BY
WARDS.

Year Ending December 31, 1897.

WARDS.	Small Pox.	Measles.	Scarlet Fever.	Diphtheria.	Diphtheritic Croup.	Mem. Croup.	Croup.	Whooping Cough.	Cholera Infantum.	Enterocolitis.	Cholera Morbus.	Diarrhoea.	Dysentery.	Typhoid Fever.	Cerebro Spinal Fever.	Total Deaths from Zymotics.	Total Deaths from all causes.	Population by Wards.
First.....	3	2	.....	.....	1	3	13	5	.....	3	.....	2	.....	32	175	7,225
Second.....	1	.....	.....	.....	.....	.....	.....	1	56	3,532
Third.....	2	.....	.....	.....	.....	4	.....	.....	.....	.....	2	.....	8	49	2,697
Fourth.....	1	.....	.....	4	1	.....	.....	.....	1	1	8	90	5,292
Fifth.....	1	.....	.....	.....	.....	1	.....	.....	1	.....	2	1	6	69	5,856
Sixth.....	1	.....	1	1	.....	3	.....	.....	.....	1	1	.....	8	71	5,496
Seventh.....	1	.....	2	.....	2	.....	2	12	.....	.....	.....	1	1	.....	21	132	8,645
Eighth.....	1	.....	2	1	1	4	1	.....	.....	.....	3	.....	13	117	6,645
Ninth.....	1	2	.....	4	1	.....	9	2	1	2	3	2	.....	27	178	11,382
Tenth.....	3	.....	.....	1	.....	6	1	.....	.....	.....	4	.....	15	76	4,613
Eleventh.....	2	.....	.....	.....	.....	1	.....	.....	.....	.....	1	.....	4	37	3,440
Twelfth.....	3	.....	.....	.....	.....	2	.....	5	72	4,883

DEPARTMENT OF POLICE.

TABLE No. 8—Continued.

WARDS.	Small Pox.	Measles.	Scarlet Fever.	Diphtheria.	Diphtherietic Croup.	Mem. Croup.	Croup.	Whooping Cough.	Cholera Infantum.	Entero-Colitis.	Cholera Morbus.	Diarrhoea.	Dysentery.	Typhoid Fever.	Cerebro Spinal Fever.	Total Deaths from Zymotics.	Total Deaths from all causes.	Population by Wards.
Thirteenth	2	.....	.....	1	.....	1	1	1	1	.....	.....	.....	7	145	6,200
Fourteenth	1	.....	1	.....	.....	.....	.....	.....	.....	.....	1	1	4	54	4,691
Fifteenth	2	.....	2	.....	.....	5	.....	.....	.....	.....	2	.....	11	106	7,379
Sixteenth	2	.....	.....	.....	.....	1	4	2	.....	1	.....	2	.....	12	91	9,978
Seventeenth	3	.....	1	1	.....	4	.....	2	.....	.....	4	.....	15	97	6,579
Eighteenth	2	5	.....	4	1	.....	8	2	1	1	1	4	3	32	250	16,924
Nineteenth	1	2	.....	.....	3	2	16	3	1	.....	1	.....	2	31	185	16,139
Twentieth	1	.....	1	.....	1	6	2	.....	1	.....	.....	1	13	104	9,009
Twenty-first	1	3	2	.....	5	3	1	14	3	1	1	1	2	2	39	198	13,191
Twenty-second	2	.....	3	1	.....	4	3	.....	.....	.....	2	1	16	120	11,268
Twenty-third	1	1	5	.....	1	.....	2	19	2	.....	1	.....	5	.....	37	193	9,812
Twenty-fourth	2	3	6	.....	3	.....	1	9	10	1	1	2	1	1	40	263	16,861
Twenty-fifth	1	.....	5	.....	2	.....	.....	17	7	1	1	3	.....	1	38	197	16,470
Twenty-sixth	1	2	.....	.....	2	.....	14	3	.....	.....	1	1	.....	24	132	7,628
Twenty-seventh	2	.....	2	1	1	13	8	1	.....	.....	.....	.....	28	202	13,897

TABLE No. 8—Concluded.

WARDS.	Small Pox.	Measles.	Scarlet Fever.	Diphtheria.	Diphtheretic Croup	Mem. Croup.	Croup.	Whooping Cough.	Cholera Infantum.	Enterocolitis.	Cholera Morbus.	Diarrhoea.	Dysentery.	Typhoid Fever.	Cerebro Spinal Fever.	Total Deaths from Zymotics.	Total Deaths from all causes.	Population by Wards.
Twenty-eighth.	1	3	8	.....	.....	.....	1	2	.....	15	86	4,083
Twenty-ninth.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	3	.....	5	65	4,784
Thirtieth	1	3	.....	1	.....	.....	2	.....	7	59	4,222
Thirty-first	2	1	1	.....	.....	.....	1	.....	.....	.....	5	44	4,119
Thirty-second	1	.....	2	.....	.....	4	.....	.....	.....	.....	.....	.....	7	56	5,444
Thirty-third.	1	.....	.....	.....	1	9	1	.....	2	1	3	.....	18	72	5,307
Thirty-fourth.....	2	.....	1	.....	1	8	2	.....	.....	.....	3	.....	17	104	6,638
Thirty-fifth.....	2	1	1	.....	1	.....	1	2	.....	.....	.....	.....	.....	.....	8	114	7,552
Thirty-sixth	4	.....	3	3	.....	7	1	.....	1	.....	.....	.....	19	113	8,995
Thirty-seventh.....	6	.....	.....	1	.....	9	7	.....	1	1	2	.....	27	152	11,932
Thirty-eighth.....	1	1	.....	.....	.....	2	5	3	.....	1	.....	1	.....	13	155	10,687
Thirty-ninth.....	3	.....	2	1	.....	10	.....	.....	.....	.....	6	.....	22	173	13,300
Fortieth.	3	.....	4	1	.....	13	1	.....	.....	4	4	1	31	164	11,734
Forty-first.....	1	1	.....	1	1	.....	3	.....	.....	.....	1	2	1	11	97	8,478
Forty-second	1	.....	5	1	.....	.....	.....	.....	.....	7	94	6,963
Total	8	20	80	.....	.....	51	23	25	282	72	11	19	22	73	16	707	5,007	350,000

TABLE No. 9.

TABLE SHOWING THE CLASSIFIED CAUSES OF DEATH.

Reported each week during the year 1897.

DEPARTMENT OF POLICE.																	
Weeks Ending.	Deaths by Weeks in 1897.	Deaths by Weeks in 1896.	Deaths by Weeks in 1895.	Deaths by Weeks in 1894.	Deaths by Weeks in 1893.	Deaths by Weeks in 1892.	Deaths by Weeks in 1891.	Deaths from Fevers.	Deaths from Nervous System.	Deaths from Respiratory System.	Deaths from Digestive System.	Deaths from Circulatory System.	Deaths from Urinary System.	Deaths from Generative System.	Deaths from Violent Causes.	Causes Unclassified.	Deaths by Suicide.
January 2.....	22	51	73	66	93	23	86	1	4	6	1	3	.....	.....	.....	7	.....
" 9.....	73	72	101	63	80	95	78	8	16	25	7	2	4	.....	2	9	1
" 16.....	73	77	99	95	91	122	82	6	13	21	7	9	5	.....	1	11	.....
" 23.....	89	76	101	81	105	126	84	8	19	32	8	7	3	.....	3	9	1
" 30.....	93	90	86	86	91	105	73	7	20	19	5	8	3	1	4	26	3
February 6.....	102	82	85	94	99	118	83	11	20	30	3	7	7	1	9	14	.....
" 13.....	102	75	106	76	108	86	96	5	12	34	6	18	5	1	3	18	1
" 20.....	101	90	107	77	52	102	96	8	14	32	4	11	6	1	6	19	1
" 28.....	105	79	124	98	59	91	98	10	28	27	8	7	4	.....	5	16	1
March 6.....	91	97	109	81	113	97	85	3	29	28	7	8	4	.....	.....	12	.....
" 13.....	75	109	114	96	106	109	86	8	20	21	3	7	1	.....	2	13	.....
" 20.....	112	102	98	95	128	109	91	10	23	41	8	8	3	2	4	13	4
" 27.....	100	69	116	101	87	107	106	4	18	92	12	11	3	.....	3	17	1

TABLE No. 9—Continued.

Weeks Ending.	DEPARTMENT OF POLICE.												Deaths by Suicide.				
	Deaths by Weeks in 1897	Deaths by Weeks in 1896	Deaths by Weeks in 1895	Deaths by Weeks in 1894	Deaths by Weeks in 1893	Deaths by Weeks in 1892	Deaths by Weeks in 1891	Deaths from Fevers.	Deaths from Nervous System.	Deaths from Respiratory System.	Deaths from Digestive System.	Deaths from Circulatory System.	Deaths from Urinary System.	Deaths from Generative System.	Deaths from Violent Causes.	Causes Unclassified.	
April 3.....	77	134	103	108	81	95	142	4	16	21	7	8	6	1	2	12	1
" 10.....	87	99	94	97	108	95	170	7	17	25	5	8	3	.....	4	18	1
" 17.....	106	91	113	77	113	100	164	3	24	42	5	8	5	.....	5	14	3
" 24.....	99	102	107	103	92	94	115	4	24	27	5	9	3	.....	6	21	.....
May 1.....	101	96	98	119	109	92	84	6	23	35	8	6	4	.....	2	17	.....
" 8.....	76	64	105	101	76	90	109	6	14	30	7	5	5	.....	1	8	1
" 15.....	101	91	66	123	99	85	90	5	26	28	6	10	3	1	7	15	1
" 22.....	75	74	75	139	101	102	83	8	10	24	10	8	1	.....	5	9	.....
" 29.....	74	92	82	102	90	102	94	4	25	20	5	4	1	.....	4	11	1
June 5.....	96	70	80	110	94	83	81	7	15	31	7	10	6	1	4	15	2
" 12.....	68	82	85	125	86	87	87	2	19	19	7	5	2	1	9	4	2
" 19.....	75	91	74	119	95	104	74	3	15	12	6	13	2	2	5	17	2
" 26.....	91	117	82	136	88	79	123	4	23	19	9	12	3	.....	7	14	1
July 3.....	93	132	95	140	71	105	74	6	28	18	16	7	1	.....	4	13	2
" 10.....	160	143	104	163	99	102	165	8	41	22	46	4	3	2	9	25	1
" 17.....	134	153	157	204	133	122	151	3	21	20	61	6	2	.....	5	16	3
" 24.....	138	126	110	189	174	202	132	7	20	17	59	4	4	.....	3	24	.....

TABLE No. 9—Continued.

Deaths by Weeks Ending.		Deaths by Weeks in 1897.	Deaths by Weeks in 1896.	Deaths by Weeks in 1895.	Deaths by Weeks in 1894.	Deaths by Weeks in 1893.	Deaths by Weeks in 1892.	Deaths by Weeks in 1891.	Deaths from Fevers.	Deaths from Nervous System.	Deaths from Respiratory System.	Deaths from Digestive System.	Deaths from Circulatory System.	Deaths from Urinary System.	Deaths from Generative System.	Deaths from Violent Causes.	Causes Unclassified.	Deaths by Suicide.
July	31.....	132	115	110	166	149	131	134	5	21	18	56	6	4	.....	4	18	.....
August	7.....	139	89	120	159	142	136	147	2	30	19	59	5	2	.....	5	17	1
"	14.....	99	115	89	131	125	127	118	1	17	15	32	10	2	.....	6	16	1
"	21.....	77	97	95	116	107	125	93	7	17	10	23	7	2	.....	3	8	.....
"	28.....	115	105	128	117	108	87	92	7	26	17	27	7	4	.....	11	16	2
Septem'r	4.....	111	81	109	97	99	105	82	2	22	14	34	8	6	.....	3	22	.....
"	11.....	91	90	97	117	88	90	78	1	19	17	26	5	1	.....	12	10	4
"	18.....	104	82	122	90	89	92	100	6	21	25	16	7	2	.....	6	22	1
"	25.....	84	97	104	96	77	95	99	2	11	22	16	10	3	3	4	13	.....
October	2.....	78	65	101	84	96	92	99	3	22	18	12	4	4	.....	4	11	.....
"	9.....	102	82	105	94	64	87	65	5	23	29	14	10	4	.....	4	13	.....
"	16.....	101	81	97	104	85	101	87	12	16	22	10	8	5	.....	10	18	5
"	23.....	103	93	103	97	91	89	103	9	17	30	13	10	8	1	5	10	.....
"	30.....	90	94	93	117	67	62	90	4	18	20	11	6	5	.....	8	18	1
Novemb'r	6.....	89	84	95	109	104	104	92	6	15	25	12	6	3	1	3	18	1
"	13.....	78	90	90	95	77	70	87	9	10	21	8	7	5	.....	4	14	.....
"	20.....	92	79	104	94	91	79	79	12	15	28	7	9	5	2	4	10	1

DEPARTMENT OF POLICE.

TABLE NO. 9—Concluded.

Weeks Ending.	Deaths by Weeks in 1897.	Deaths by Weeks in 1896.	Deaths by Weeks in 1895.	Deaths by Weeks in 1894.	Deaths by Weeks in 1893.	Deaths by Weeks in 1892.	Deaths by Weeks in 1891.	Deaths from Fevers.	Deaths from Nervous System.	Deaths from Respiratory System.	Deaths from Digestive System.	Deaths from Circulatory System.	Deaths from Urinary System.	Deaths from Generative System.	Deaths from Violent Causes.	Causes Unclassified.	Deaths by Suicide.
November 27.....	70	73	102	93	111	102	83	6	10	25	4	4	2	.....	5	14	.....
December 4.....	100	84	85	100	130	68	82	6	12	23	15	9	5	.....	5	25	.....
" 11.....	98	83	86	100	113	91	87	3	26	31	5	9	6	2	4	12	.....
" 18.....	83	80	87	100	140	83	84	9	15	26	5	6	3	.....	5	14	2
" 25.....	91	68	63	93	93	76	70	8	18	28	3	12	6	1	5	10	1
" 31.....	91	76	36	30	.....	.....	.....	6	20	30	7	11	5	.....	3	9	.....
Total.....	5,007	4,959	5,167	5,663	5,261	5,227	5,204	306	1,018	1,271	763	49	194	24	247	775	54

TABLE No. 10.
ANNUAL DEATH RATE.

1897.....	14.30
1896.....	14.71
1895.....	15.89
1894.....	17.43
1893.....	18.15
1892.....	18.02
1891.....	19.17
1890.....	19.08
1889.....	18.36
1888.....	18.78
1887.....	19.02
1886.....	17.40
1885.....	17.43
1884.....	18.00
1883.....	17.41
1882.....	18.85
1881.....	20.02
1880.....	19.6
1879.....	17.36
1878.....	16.72
1877.....	17.91
1876.....	19.81
1875.....	18.28

TABLE No. 11.

TABLE SHOWING THE NUMBER OF BIRTHS EACH MONTH FOR THE YEAR ENDING
DECEMBER 31, 1897.

MONTHS.	Births, exclusive of Still-births.	Color.		Sex.		NATIVITY.										AGE OF MOTHERS.								
		White.	Colored.	Male.	Female. •	Native.	Foreign.	Native Mother.	Foreign Mother.	TWINS AND TRIPLETS.						Illegitimate.			Under 20 years.	20 to 25 years.	25 to 30 years.	30 to 40 years.	40 to 50 years.	Not stated.
										Native.	Foreign.	Nat'v Mother	For'n Mother	Total Child'n	Triplets.	Nat'v Mother	For'n Mother	Total Child'n						
January..	945	943	2	493	452	284	575	41	31	2	1	...	...	6	...	2	6	8	41	233	302	326	40	...
February..	746	745	1	374	372	207	450	27	32	3	5	...	...	16	...	10	4	14	42	183	227	245	41	...
March.....	756	754	2	379	377	181	509	26	16	...	1	2	2	10	...	8	6	14	38	212	267	251	43	...
April.....	731	729	2	375	356	192	453	40	21	1	6	1	...	16	...	7	2	9	32	188	207	261	35	...
May	753	753	...	390	363	213	418	62	40	2	5	...	...	14	...	2	4	6	34	209	210	251	42	...
June.....	718	712	6	360	358	166	441	47	29	2	4	...	1	14	...	13	8	21	43	216	197	224	32	...
July.....	815	811	4	385	430	152	558	42	26	...	8	...	...	16	...	12	9	21	40	214	250	263	40	...
August	806	801	5	422	384	208	494	37	34	2	10	...	...	24	...	5	4	9	35	193	259	269	38	...
September.....	758	758	...	396	362	211	461	39	14	1	6	...	...	14	...	10	6	16	41	193	208	259	50	...
October.....	710	705	5	361	349	188	431	38	29	1	7	...	...	16	...	5	3	8	37	183	191	257	34	...
November.....	733	722	11	386	347	168	470	38	32	1	5	...	...	12	...	10	3	13	40	194	201	260	32	...
December.....	664	663	1	341	323	148	441	28	20	1	8	...	...	18	...	2	7	9	28	160	220	210	37	...
Total	9135	9096	39	4662	4473	2318	5704	465	324	16	66	3	3	176	...	86	62	148	450	2378	2679	3076	464	...

TABLE No. 11.
BIRTH REPORT FOR 1897—Continued.

MONTHS.	Age of Fathers.						Stillbirths.		Births during Thirteen Years by Months.												
	Under 20 years.	20 to 25 years.	25 to 30 years.	30 to 40 years.	40 to 50 years.	50 years and over.	Not stated.	Stillbirths 1897.	Stillbirths 1896.	Births in 1886.	Births in 1885.	Births in 1884.	Births in 1893.	Births in 1892.	Births in 1891.	Births in 1890.	Births in 1889.	Births in 1888.	Births in 1887.	Births in 1886.	Births in 1885.
January	1	82	281	434	126	10	.....	36	39	810	834	897	829	768	751	826	673	613	582	574	561
February	3	81	206	322	101	11	.....	41	34	769	708	775	811	704	741	684	592	639	553	532	544
March.....	3	90	208	324	104	8	.....	30	28	763	745	848	691	846	712	730	626	636	580	590	491
April.....	1	93	192	323	95	10	.....	46	34	703	638	718	769	779	633	629	575	514	506	630	487
May.....	3	88	210	338	95	6	.....	32	43	734	749	785	654	695	679	693	608	507	548	524	506
June.....	2	102	241	311	30	4	.....	31	31	624	741	771	812	731	660	626	631	612	514	516	496
July.....	2	185	235	253	102	9	.....	28	31	768	745	746	777	809	766	722	722	640	585	513	465
August.....	2	93	224	367	90	9	.....	41	24	762	835	754	842	799	752	711	656	722	602	598	547
September.....	.....	95	192	336	105	7	.....	27	26	832	761	780	777	788	809	628	634	632	568	556	547
October.....	1	91	175	315	95	17	.....	32	36	800	788	749	897	744	708	659	607	627	541	520	500
November	1	173	175	238	104	23	.....	30	34	694	744	720	682	690	702	604	678	635	522	509	475
December.....	3	19	200	292	84	8	.....	29	36	593	730	709	726	755	769	756	710	590	610	555	506
Total	22	1232	2539	3853	1131	122	.....	403	356	8927	9044	9242	9267	9108	8682	82.7	7666	7357	6711	6547	6325

TABLE NO. 12.

NUISANCES ABATED IN 1897 BY SANITARY POLICEMEN.

Sanitary Policemen.	Alleys Filthy.	Gutters Filthy.	Catch Basins.	Houses Filthy.	Yards and Lots Filthy.	Cisterns Filthy.	Wells Examined.	Wells Condemned.	Wells Filled Up.	Notice to Remove Ashes and Rubbish.	Notice to Remove Manure.	Stables Filthy.	Chicken Coops Filthy.	Privies Filthy.	Old Privies Closed.	New Privies.	Privies Cleaned.	Privies Repaired.	Sewer Vaults.	Cess-Pools Cleaned.
Armstrong.....	38	47	71	52	298	1	....	....	1	389	52	24	30	229	5	1	88	2	8	....
Beakel.....	61	106	28	5	189	5	2	2	2	219	62	4	34	49	18	63	470	62	26	....
Bartel.....	33	34	4	3	22	7	22	12	9	185	89	1	10	414	30	25	331	42	16	18
Bubb.....	10	5	9	15	56	7	....	....	5	22	84	1	1	483	40	17	316	20	1	....
Dwyer.....	13	72	35	23	76	2	3	3	5	152	69	23	19	536	100	27	457	27	61	9
Kraus.....	55	64	45	93	82	....	....	1	....	698	47	28	7	40	4	3	83	9	9	....
Morris.....	202	218	62	130	231	84	64	66	66	798	266	100	146	163	73	96	561	192	27	38
Newcomb.....	9	25	22	12	77	....	....	....	....	333	204	13	46	45	159	27	432	2	127	1
Nevins.....	137	70	30	87	461	5	3	3	1	685	88	20	3	398	25	4	208	36	44	....
Port.....	83	51	46	107	220	....	2	2	1	1378	231	33	27	63	129	9	170	5	99	....
Redinger.....	53	43	31	130	437	7	3	3	3	556	69	55	182	474	17	19	345	5	99	9
Schnauffer.....	59	64	28	24	47	6	13	13	18	273	385	125	149	809	68	116	597	3	83	1
Stearns.....	44	39	5	16	89	4	1	1	10	112	74	....	39	399	51	17	359	6	46	1
Shannon.....	9	5	19	15	86	1	1	1	1	348	95	5	54	309	57	8	271	1	67	....
Vogt.....	....	6	....	5	9	....	....	....	1	39	24	7	1	616	47	8	572	4	....	...
Whitman.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total.....	806	849	435	717	1180	129	114	107	128	6187	1839	439	748	5027	823	440	5260	416	713	77

TABLE NO. 12—Concluded.

NUISANCES ABATED IN 1897 BY SANITARY POLICEMEN.

Sanitary Policemen.	New Cess-Pools.	Notices for Swill and Garbage.	Pig Pens.	Dead Animals.	Slaughter Houses.	Soap Factories.	Arrests.	Death Reports Gathered.	Total Number of Days at Special Duty.
Armstrong.....	...	381	...	41	3	...	2	...	114
Beakel.....	...	102	2	39	...	...	...	46	...
Bartel.....	...	175	1	41	...	...	...	8	65
Bubb.....	...	693	...	18	...	...	1	4	39
Dwyer.....	6	141	...	34	1	...	2	3	...
Kraus.....	...	608	...	37	19	...	13	56	1
Morris.....	10	1256	...	37	2	17	5	36	...
Newcomb.....	...	354	...	37	...	1	...	2	92
Nevins.....	...	592	...	4	...	...	...	55	53
Port.....	2	805	...	45	9	6	...	19	...
Redinger ..	1	31	12	35	148	12	52	62	...
Schnauffer.....	...	240	3	52	1906	467	...	1	...
Stearns.....	...	...	...	26	935	...	1	39	...
Shannon.....	...	386	...	38	2	...	3	7	39
Vogt.....	...	...	1	10	...	...	4	...	...
Whitman ..	...	...	...	...	...	...	...	...	...
Total.....	19	5764	19	494	3025	503	83	394	490

TABLE No. 13.
 UNITED STATES WEATHER BUREAU.
 Annual Meteorological Summary of Cleveland, Ohio, for the year ending December 31, 1897.

Latitude, N. 41°, 30'. Longitude, W. 81°, 42'.	1897. MONTH.	Monthly Mean Barometer.	Mean Temperature.			Mean Humidity percentage.	Total Inches Rainfall.	Prevailing Di- rection of Wind.	Wind, Total in Miles.	Number of Days.						Auroras.
			Mean Therm'.	Maximum Therm'.	Minimum Therm'.					Clear.	Partly Cloudy.	Cloudy.	Rainy.	Snow.	Thunder Storms.	
	January	29.26	24.0	61	-15	83	1.85	S. W.	12,782	3	4	24	14	15	1	0
	February	29.21	29.6	62	4	81	1.52	W.	9,455	4	2	22	15	9	0	0
	March	29.20	33.0	62	18	79	2.47	N. E.	12,512	10	8	13	18	4	1	0
	April	29.25	46.7	79	26	77	1.34	S.	11,099	4	9	17	13	2	0	0
	May	29.17	54.8	80	33	72	3.73	N. W.	9,120	10	10	11	13	0	2	0
	June	29.17	64.5	87	43	68	1.05	N.	8,011	4	21	5	8	0	5	0
	July	29.13	73.8	97	56	71	2.48	S.	7,984	10	14	7	13	0	8	0
	August	29.19	67.1	85	51	71	2.63	S. E.	8,476	11	11	9	10	0	6	0
	September	29.36	65.2	87	39	64	0.66	S. E.	8,364	17	7	6	4	0	2	0
	October	29.28	67.2	85	36	66	1.32	S. E.	11,037	7	15	9	4	0	0	0
	November	29.23	41.5	65	18	78	4.13	S.	13,771	3	4	23	20	3	1	0
	December	29.22	31.6	60	8	76	1.36	W.	11,926	0	4	27	14	9	0	0
	Sum	350.67	594.0	.....	.....	886	24.54	.....	124,537	83	109	173	151	42	26	...
	Mean Averages for year	29.22	49.5	97 July 4.	-15 Jan. 25.	74	.....	S.	.....	.....	.....	.....	.....	.....	.....	.....

Report of the Superintendent of Markets.

Hon. E. A. Abbott. Director of Police :

DEAR SIR:—I herewith submit to you the following report, Division of Markets. These articles were confiscated by myself and deputies during the year 1897.

193 carcasses of veal.
117 " " sheep.
67 " " hogs.
29 " " beef.
523 chickens, ducks, geese and turkeys.
43 hams.
1157 lbs. of fish (different kinds).
615 lbs. of corned beef and pork.
65 lbs. of tripe.
397 lbs. of fresh beef, pork and sausage.
216 dozen of eggs.
14 bunches of bananas.
7 bushels of beans.
3 bushels of peas.
37 crates of strawberries.
9 crates of blackberries.
23 baskets of tomatoes.
4½ boxes of oranges.
1½ boxes of lemons.
69 illegal measures.

Respectfully yours,

BENJ. ATKINSON,

Superintendent.

Report of Smoke Inspector.

JANUARY 17TH, 1898.

Dr. J. L. Hess, Health Officer :

SIR:—I herewith present report of work done by me in this Department. The prevention of smoke to comply with the City Ordinance now in force is no longer a problem. If there are those who maintain smoke cannot be prevented to such an extent as to be inoffense they must be willfully blind. There are four ways in which smoke may be prevented as follows :

1st. Automatic stokers for feeding the coal into the furnace steadily. This plan shows good results both as regards saving of fuel and prevention of smoke, but will hardly come into general use on account of the cost.

2d. Various devices in the steam jet line while a number of them are new some are showing very good results, but are liable to burn out or get displaced.

3d. Coking chambers and admitting air to the coals through openings in front or sides of the fire box and usually by the aid of steam jets.

4th. Change of fuel, that is by the use of Hard Coal, Coke, Petroleum Coke or Pocahontas Coal. Either one of these kinds of fuel will in my judgment comply with the Ordinance

Number of notices served during the year, 176; under the new Ordinance total, 340; visits made to merchants and manufacturers, 504; complaints attended to, 42; Murphy stokers put in, 4; Brightman stokers, 10; Ohlstrom stokers, 2; Wyman stokers, 3; American stokers, 2; Hawley Down Draft Furnaces, 2; Burk Furnaces, 4; Ohio National steam jet, 19; Steam jets of various kinds, 62; Talbot's steam jet, 10; Manhattan steam jet, 3; Checker system under boiler, 6; Pocahontas Coal, 24; Coke, 6; Electricity, 2; Stacks raised, 2; number of days in Health Office, 30½; number of days in Plumbing Inspector's Office, 53; arrests, 3; they are now pending in Police Court.

Respectfully submitted,

JAMES M'LAREN,

Smoke Inspector.

Report of Plumbing and Sewer Inspector.

Dr. J. L. Hess, Health Officer :

DEAR SIR:—As Inspector of Plumbing and Sewers, I have the honor to submit to you my annual report for the year ending December 31, 1897.

In the past year we have issued five thousand four hundred and thirty-nine (5,439) permits for plumbing and sewerage. Of that number two thousand eight hundred and ninety-three (2,893) were for plumbing; two thousand one hundred and nine (2,109) were for sewerage; four hundred and thirty-seven (437) were for extensions and repairs.

Final inspections have been made upon nine hundred and sixty-six (966) plumbing jobs in new houses and upon one thousand three hundred and thirty-two (1,332) plumbing jobs in old houses, making a total inspection of two thousand two hundred and ninety-eight (2,298) plumbing jobs; also final inspections of two thousand six hundred and seventy six (2,676) water closets which have been placed upon premises.

Final inspections have been made upon two thousand one hundred and seventy-nine (2,179) sewer jobs, nine hundred and fifty-one (951) being in new houses, one thousand two hundred and twenty-eight (1,228) in old houses.

During the past year we have made four thousand eight hundred and thirty-six (4,836) inspection visits of plumbing and two thousand four hundred and forty-four (2,444) on sewerage, making a total of seven thousand two hundred and eighty (7,280) inspection visits.

We have found three hundred and twenty-two (322) defective plumbing jobs and one hundred and seventeen (117) defective

sewer jobs, making a total of four hundred and thirty-nine (439) defective jobs found by our inspector.

I found it necessary to have delivered to the plumbers and sewer builders of the city sixty-nine (69) notices, notifying them of defective work and other matters in regard to the trade.

Eight hundred and three (803) special examinations of plumbing and house drainage were made by the request of yourself and interested persons. In many cases alterations and repairs have been made as the result of these inspections, great care and time being required to make these inspections.

Thanking you for the interest you have taken in our department, I remain,

Very respectfully,

BERT ROBINSON,
Inspector of Plumbing and Sewers.

Report of Food Inspector.

Dr. J. L. Hess, Health Officer:

DEAR SIR :—I have the honor to submit, for your consideration, the annual report of this office, for the fiscal year ending December 31st, 1897.

During the year just past, considerable time and money have been spent, in order to put the laboratory in proper shape, for the work which we are called upon to do. The room in which the laboratory is situated has been thoroughly renovated, painted and cleaned, its arrangement changed to better facilitate the work, new apparatus has been obtained, and many improvements made in different ways. All things now being in proper shape for the coming year, and we hope to be able to make an excellent showing of the work done by this office.

There is no doubt but that we are in need of many things in the line of chemicals and apparatus, which would add to the efficiency of our work, but as our appropriation is small, (five hundred dollars), we can only hope to add a little at a time, as most of the money is needed for the current expenses of the laboratory.

The Health Division has been very kind in aiding us in many ways to make this branch of its work what it ought to be, and we feel that more than usual interest has been shown in our work, both by that Division and by those associated with myself in the laboratory.

I wish to make special mention of the good work done and interest shown in that work, by Mr. T. B. Schultze, my assistant, and of the constant care and attention given at all times to the laboratory and his work therein by Mr. J. J. Grayell.

The work has been carried along different lines than heretofore, from the fact we have not only looked after the purity of the food from a chemical standpoint, but have visited and inspected many places where food is prepared, stored and sold, in order to see that proper sanitary conditions existed, and that proper care was exercised at all times to insure healthful and clean food, this being to my mind of equal importance to that of adulteration.

Great care has been taken that all analyses made should be accurate, the methods used being for the most part those employed by the U. S. Department of Agriculture, Division of Chemistry. The records of all work done are kept on file, with analysis, number, date, and from whom obtained, by whom sold, address of both parties, the reason of complaint and the results obtained.

MILK.

There are one thousand seven hundred and forty-three (1,743) licensed milk dealers in the City of Cleveland, this number including wagons, stores and milk depots, the sale of milk being governed by State Laws, passed and taking effect on April 10th, 1889, amended June 30th, 1891, (O. L. Vol. 86, Page 229), and also by City Ordinances, (Sec. 550-555).

No person is allowed to sell milk, whether the sale is to take place from wagon or store, unless he or she has a permit, said permit being issued by the Health Division. A record of all permits issued is kept by that Division, great care being taken to see that no one is allowed to sell milk unless they have a permit. All wagons must be numbered and the owner's name placed thereon, and any can containing milk from which the cream or any part thereof has been taken, must be marked in uncondensed gothic letters, not less than one (1) inch in length, "skimmed milk."

During the past year five thousand four hundred and thirty-eight (5,438) samples have been collected, and although this number is not large, nor nearly so many as ought to be taken in a city as large as Cleveland, yet when it is taken into consideration that this number has been taken by one man, and he with no other way of getting to different points in the city except the street cars or walking, it is not a bad showing.

The samples are collected in half-pint bottles, each numbered, and the name and address of the dealer are taken, also the name and address of the producer. The samples are then brought to the laboratory and an analysis made, the analyst not knowing from whom the milk was obtained, being governed only by the analysis number. After the analysis is made, all samples found below the standard, the "standard" being as provided by the State Law, passed and amended as given in the sections above, that is that milk is not to contain more than 88 % of watery fluid, or to contain less than 12 % solids, nor (not) less than $\frac{1}{4}$ of which must be fat, except during the months of May and June, when milk containing less than $11\frac{1}{2}$ % of milk solids shall be deemed to be not of a good quality, are noted and notices sent to the milkman from whom the milk was obtained, asking him to call at this office, and warning him of having such milk in his possession; upon calling he is told which of his samples was found to be below the standard, the name of the producer, the requirements of the law, and also that if any milk upon his wagon is found in like condition again, that he will be liable to prosecution. Most of the milkmen have shown a desire to sell only the best milk, and for the most part have done their best to conform to the law, and have shown an interest in the work we are doing in this line. The samples of milk are taken before the milkmen start out on their routes, that is they are taken either as they come into the city limits, or at the depots as the cans are taken from the trains. No dealer can tell when or where the samples are to be taken, so that no chance is given to make the milk any better at one time than another; and we thus know the true condition of the milk at all times. The cans and wagons are thoroughly inspected to see that they are in proper condition, that dippers are used, and that the milk is thoroughly stirred before dipping, in order that the last customers may obtain just as good milk as the first.

Very little, if any, coloring matter or preservative is used by any of the milk dealers of this city. The greatest evil we have to contend with being the removal of part of the cream. This may be done by the farmer before sending the milk, by the train men while the milk is en route, or by the milkman, the latter being held responsible for the same. We have done and are doing

our best to stop this practice, and have met with success in a remarkable degree, as is shown by comparison with last year's report.

Although the percentage of milks given in the table following, as below the standard may seem high, yet it must be remembered that the number given includes all those which did not conform to the State law in every particular, and be that deficiency ever so small it has been given in this number. There is no doubt but that the greatest source of danger, as far as disease is concerned, arising from the use of milk, lies in the dairy. The milk brought into this city is brought from a large and wide-spread territory, and from a large number of dairies. To visit all these, look into their sanitary condition as to stables, yards, how and where the milk is kept, the condition of the cans and health of the cattle, would require one man's constant attention and time, a large amount of travel and great expense; but there is no doubt but that it ought to be done, for any chemical analysis, be it ever so careful and complete, will not show many points which, to my mind, are of far greater importance than the amount of fat and total solids.

It is a well-known fact that there is no food so liable to take up odors and disease germs as milk, and where we find filth we are liable to find both of these. There is then much need that some work should be done to ascertain the condition of the dairies sending milk into our city. Should this line of work be taken up, then if the dairies are not found in good condition, they can be prohibited from sending their milk into the city, until all things about the same are in proper condition.

About one-seventh of the milk sold in the city is put up in bottles, also a large amount of cream, this method being considered to be far superior to that of the can and dipper.

We have a pasteurized milk company, who have had a liberal patronage, and have given entire satisfaction. A visit was made to the plant, and everything found to be in prime condition, with every care taken as to cleanliness, the place having cement floors and hot and cold water attachments.

The number of samples of milk brought into the laboratory for examination, on account of various complaints, has been sixty-two (62), and where any of these samples have been found

to be below the standard, or to contain any foreign substance, the matter has been fully investigated and proper steps taken to punish the offender.

In this connection it should be said that Sanitary Patrolman Whitman deserves a large amount of praise for his faithfulness in collecting all the milk samples during the past year, and for his untiring efforts in this line, as well as for his interest in all other work in and about the office.

The following table, given below, shows the number of samples collected each month during the year, the number of these which were below the standard, the number of adulterations in that number, the average specific gravity, fats and solids, for each month, also the numbers and percentages for the year.

MONTH.	Sam- ples.	Low.	% Low.	Adult- erated.	% Adult- erated.	Average Sp. Gr.	Average Fat.	Average Total Solids.
January	396	17	4.29	4	1.01	1.030	4.0	12.55
February	349	22	6.30	2	.57	1.029	4.0	12.31
March	300	35	11.60	3	1.00	1.029	4.2	12.55
April	533	94	17.63	10	1.88	1.029	4.0	12.31
May.....	506	38	7.51	10	1.98	1.030	3.8	12.31
June	324	59	18.21	9	2.77	1.029	3.8	12.07
July.....	.....	.....	.....	.....	.....	.....	.....	.....
August	724	183	25.27	12	1.65	1.030	3.6	12.07
September.....	600	156	26.00	20	3.33	1.030	3.8	12.31
October.....	684	175	25.58	16	2.36	1.030	3.6	12.07
November.....	482	41	8.50	1	.20	1.030	4.2	12.79
December.....	540	78	14.44	9	1.66	1.030	4.6	13.07
Total	5438	899	16.53	96	1.77	1.0296	3.96	12.40

During the month of July no samples were taken, owing to the fact that the "Babcock Tester" was broken, and a new one had to be made.

MILK DEPOTS.

During the year four hundred and thirteen (413) visits have been made to milk depots, attention having been given to the condition of the rooms, the vats in which the milk was kept, the cans and utensils used in and about the milk, in fact, all points that pertained to the sanitary condition of the place, and the proper handling of the milk. Samples of the milk for analysis were also taken from the cans in the depot at the time of calling, and where any objectionable or unsanitary conditions were found to exist in or about the depot, an order was left with the proprietor to attend to the same; a reasonable length of time being given for its correction, after the time had elapsed, a second visit was made to see that all things had been put in proper and sanitary condition. At this time the milk depots are all in better shape than at the beginning of the year, and they will receive our constant attention.

A number of stores also sell milk; of these one hundred and fifty-seven (157) have been inspected, in the same manner as the milk depots, and samples of milk taken from each.

BUTTER.

Many complaints have been made in this regard, and most of them with reason, for large amounts of oleomargarine, or mixtures of oleomargarine and butter, have been sold for pure butter in stores, at the markets and from wagons. The State Law is very strict in this matter, and a number of prosecutions have been made by the State during the past year. All samples brought into this office have been given a thorough chemical analysis, and where adulterations have been found, or oleomargarine has been sold for butter, we have done our best to make a case against the dealer, but in this we have failed many times, either because the parties bringing in the sample did not wish to carry the case into court, or because the chain of evidence was lacking in some point.

We have also found that unclean and rancid butter gives another cause for complaint, and where the buyer has paid a reasonable price and bought it for good, wholesome butter, we have

gone to the dealer and explained the matter to him and asked him to make the matter right with his customer, and in nearly all cases satisfactory arrangements have been made.

MEAT AND FISH MARKETS.

Many of the meat and fish markets of the City have received our attention; in these the "coolers" were given special attention as to their construction, ventilation and cleanliness, relative position of the meat and the ice, and the condition of the meat therein, the location of scrap barrels, the condition of drains and sewers in and about the place, to see if they were in working order; and, where the existing conditions necessary to health were not found, an order was left for its immediate remedy.

GROCERIES.

Many stores were visited, in order that we might learn their condition, the manner in which the goods were stored, and in what way they disposed of their refuse. Samples of various kinds were taken, more particularly sugars, white and brown. The samples were brought to the laboratory and analyses made. Much agitation has been raised along this line during the past year by the State Food Commissioner. We have found no sugars that contained any deleterious matter of any kind, or any adulteration; some were slightly blued with ultramarine, but, as this is perfectly harmless, and the quantity so very small that it could not be called an adulteration, nothing was done in the way of prosecutions by the Department.

ICE CREAM MANUFACTORIES.

All the factories where ice cream is made were visited, the surroundings of the building and room in which the ice cream was made were given a thorough examination, the cooler in which the milk and cream were kept before being made up, the cans in which the cream was made, the ice used and where obtained, these points were all noted. Where unsanitary conditions existed as to place or manner of handling the ice cream, an order to correct same was given, and a second visit made to see that the order had been carried out.

Samples of all coloring matters used in the coloring of the ice cream were taken and submitted to an analysis, to ascertain if any ingredient was used that was detrimental to health; found that in one color used in making strawberry ice cream, and being carmen red, that large amounts of ammonia were present; this was used by five manufacturers. An order was sent to each to stop its use at once, and we have had no further trouble from this source.

Most of the places were found in good shape, care being taken to make the best article and observe cleanliness, as well as to have the room and surroundings in a sanitary condition.

SODA FOUNTAINS.

The soda fountain of the past has been a menace to public health. Fruit juices and some syrups contain free acids. These were placed in metallic cups within the fountain, the acid acting upon the metal, producing poisonous compounds. Of course, the consumer got very small quantities of this poison at a time, but continued use of the same might cause serious results. Moreover, various preservatives, such as salicylic, tartaric and boracic acids have been and are used in preserving the syrups and fruit juices. At the time the inspection was made, very few fountains had the metal in contact with the syrups, as the cups were porcelain lined, and most of the fruit juices were kept on the counter in glass or porcelain dishes. Samples of all the syrups and fruit juices were taken and analyzed for preservatives and colorings of an injurious nature; of these only three were found to contain anything injurious, or against the law, that being salicylic acid, it being used as a preservative. Notices were sent to those using it, and no more was used the remainder of the season, so far as we were able to ascertain.

RESTAURANTS.

All the restaurants in the central part of the city and many of those located in other parts have been inspected; particular attention having been given to the kitchens, as to how the cooking was done, the materials used, the location of the ice boxes

and the care taken of them, also the cleanliness of all utensils used, the location of the drains and sewers, and of the garbage barrels, and how often emptied. Suggestions were made to the proprietors in the way of bettering the condition of their places. A second visit was made in a reasonable length of time to see that our suggestions had been carried out, and in case they had not been, an order was sent them to attend to the matter at once. At this time we find the restaurants in our city to be in excellent condition.

ICE AND ICE PONDS.

There are twenty-three (23) ice ponds in and outside the city limits, from which ice was cut and sold in the city for domestic or cooling purposes during the past winter. These have all been inspected. The source of each stream running into the ponds has been the starting point of investigation. All sources of contamination along these streams and around the ponds, such as the surrounding territory from which the surface water was drained, all sewers, out-houses, slaughter-houses, barns, private drains, etc., were noted; and sketches and complete reports of these ponds will be found on file in this office. The majority of these ponds are in very poor condition, being nothing more or less than cess-pools, receiving the surface water from thickly populated districts, and the sewerage as well. Moreover, many of them are merely mud holes in the summer time, with barns, slaughter-houses and private houses upon their banks, receiving constantly the filth from these; and in the Fall of the year they are dammed up to await the heavy rains; thus when the rains do come they are filled with the surface washings of the surrounding country, and receive as well the pollution from the other sources. There is no doubt but that the cutting of ice from any pond within the City Limits, for any purpose whatsoever, should be prohibited, as there is not one of them from which good water could be obtained at any time during the year. Skating is also permitted upon the ponds, and it is easy to see that this is another source of the spreading of disease, and that more filth is thus added to the ice.

During the last winter ice was cut from the lake, inside the breakwater. We have analyzed various samples of water and ice coming from different points on the lake front, and found it to be foul in the extreme, and shall endeavor to prohibit all persons from cutting ice from there for any purpose.

According to section 555-561 of the City Ordinances, ice has been cut from these ponds and within the breakwater for "cooling purposes only," and all persons having this ice for sale were to mark their wagons with the words, "Ice for cooling purposes only." In many cases this was done, but many did not so do, and, even though we might feel sure that they were selling this ice for domestic purposes, yet it was almost impossible to prove that such was the case, they saying that the ice came from some lake outside of the City, and to watch them the whole season through is impossible.

Ice sold for cooling purposes is often misused by persons buying the same, they not knowing the danger therein, and even though the food may not come in direct contact with the ice, yet the danger is not wholly obviated, as the refrigerators are kept tightly closed, and foul odors, arising from the ice therein, are taken up by the food, particularly, milk, butter and meat.

We have done our best to make comprehensive and complete reports upon the condition and surroundings of all these ponds, and hope that some decisive action may be taken to stop the cutting of ice from these ponds for any purpose.

FILTERS.

An extended examination as to the efficiency of various filters submitted to the Board of Education for supplying filtered water to the schools of this City was undertaken by the Health Department. This work was carried out in this office, and the following points were taken into consideration: the purity of the water supplied, from a chemical and bacteriological standpoint; the amount of water supplied in a given length of time, method of cleaning filter, its operation and construction. All filters were given careful tests as to these points, and a report made out for the purpose given above. Some of the filters tested were found to be almost worthless, from the fact that, although the water

after passing through the filter was cleared of a large proportion of the suspended organic matter and sand, yet the harmful properties of the water, organic, inorganic matter and germs had remained in the water. Most of the filters submitted were those depending upon the passing of the water through sand, rock or porcelain tubes. If these tubes were very open, that is, if the pores were large, the water could pass through very easily, and thus only the larger particles of suspended matter were removed, and were carried by the force of the water far into the tube, where no amount of washing could cleanse the tube properly; putrefaction soon took place, making such a filter worse than none at all. The efficiency of a filter depends upon the density of the tube, for although the water passes through slowly, yet, if dense enough, it will remove all harmful matter and germs from the water.

Another point, worthy of consideration in this connection, is the cleansing of a filter; if this is attended with a large amount of labor, it will be neglected, and any filter ought to be cleaned every day to keep it in a sanitary condition. Upon the surface of the tube, or in the filter, if a tube is not used in the filter, collects all the objectionable matter taken from the water; all water then passing through the filter must come in contact with this, and the danger is made greater, rather than lessened, as this soon becomes the breeding ground for germs. As the care of the filters for the schools must of a necessity be left to the janitors, the point of cleaning the filter was one of great importance, for, if it was easily and quickly done, it stood to reason that it would be attended to more as it ought.

Nothing has been done, so far as we are able to learn, in the way of selecting any particular filter for the use of the public schools.

Some of the work done by this Department during the past year has been given above in detail. While many other subjects have been given attention, they have not had special mention, as they are of minor importance, and only such as come in the usual course of work done by such a laboratory.

The following table will give an idea of the amount of chemical work done in the laboratory, and of the variety of work we are called upon to do. In this table will be found the names of the different articles, the number of same, the number of determinations for each, with the totals for each, and for the entire year :

	Number of Samples.	Number of Determinations.	Total Number of Determinations.
Milk samples collected	5438	5	27,190
Milk samples brought in	62	5	310
Butter.....	18	6	103
Well water.....	28	10	280
Spring water.....	7	10	70
Lake water	8	10	80
Filtered water.....	10	10	100
Ice water.....	6	10	60
Cider.....	2	9	13
Vinegar	6	9	54
Beer.....	5	9	45
Whiskey.....	11	9	99
Sugar (Granulated).....	57	3	161
Sugar (Brown).....	5	6	30
Maple Syrup	1	3	3
Flour.....	7	5	35
Cake.....	1	3	3
Rye Flour.....	1	5	5
Bread.	1	5	5
Meat	1	2	2
Cocoa.....	2	2	4
Candy.....	1	4	4
Ice Cream Colors... ..	19	14	266
Soda Water Syrups.....	96	4	384
Cherry Phosphate.....	1	6	6
Horse Radish.....	3	2	6
Opium.....	2	5	10
Medicine	1	8	8
Medicine (Patent).	1	30	30

	Number of Samples.	Number of Determinations.	Total Number of Determinations.
Urine.....	5	12	60
Cleaning Preparations.....	1	5	5
Metal Knife.....	1	6	6
Silver Plating Liquid.....	1	6	6
Tobacco.....	1	2	2
Beans.....	1	2	2
Pork.....	1	2	2
Cement.....	2	8	16
Coal.....	7	6	42
Chicken for poisons.....	2	5	10
Cheese.....	5	5	25
Grain.....	1	6	6
Linament.....	1	10	10
Explosive Compound.....	2	5	10
Totals.....	5,832		29,578

Respectfully submitted,
F. J. PECK,
Food Inspector.

REPORT .

OF THE

POLICE COURT.

1897.

POLICE COURT OFFICIALS.

WILLIAM F. FIEDLER Judge.
THOS. M. KENNEDY..... Prosecutor.
GEORGE SCHINDLER Assistant Prosecutor.
THOS. C. BRINSMADE..... Assistant Prosecutor.
A. B. HONECKER..... Clerk.
WM. JONES Deputy Clerk.
TONY S. DEISNER..... Deputy Clerk.
JOHN DOUGLASS..... Deputy Clerk.
PAUL SCHREINER Deputy Clerk.
ART A. KUNTZ Deputy Clerk.
LOUIS RUBINSTEIN Interpreter.
LOUIS BEZINA Messenger.

Report of the Clerk of Police Court.

CLEVELAND, OHIO, February 21, 1898.

To the Honorable City Council.

GENTLEMEN:—I hereby submit my report for the year ending January 31, A. D. 1897.

Respectfully submitted,

A. B. HONECKER,

Clerk of Police Court.

REPORT OF PROCEEDINGS OF THE POLICE COURT FOR THE YEAR ENDING

DECEMBER 31, 1897.

REPORT OF THE POLICE COURT.

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	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
City Cases—No. of persons arraigned.....	543	586	698	606	1,276	1,032	869	956	834	1,013	961	1,082	10,095
State Cases—No. of persons arraigned.....	190	203	205	251	251	303	296	338	203	227	251	238	2,955
No. of state examinations.....	36	21	54	21	19	30	34	24	27	38	21	25	350
No. of cases from Justice courts.	.....	.....	.....	.....	6	5	16	9	9	7	.....	4	56
Total.....	769	810	947	1,078	1,552	1,370	1,245	1,327	1,073	1,285	1,263	1,349	14,058
City Cases—No. of persons committed to Workhouse.....	62	40	47	36	27	39	34	31	23	54	41	36	470
State	17	12	13	9	11	20	7	8	6	18	18	20	159
to	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
to	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
to	1	■	5	5	18	10	6	4	4	8	9	7	85
to	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1
Total.....	80	60	65	■	56	69	47	44	33	80	69	63	716

REPORT OF PROCEEDINGS OF THE POLICE COURT FOR THE YEAR ENDING
DECEMBER 31, 1897.—Concluded.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
City Cases—No. of days on commitments to Workhouse.....	1,720	1,130	1,370	1,040	941	1,975	729	861	625	1,490	1,270	1,090	14,241
State Cases—No. of days on commitments to Workhouse.....	791	882	701	280	591	991	555	532	391	711	630	851	7,906
No. of days on commitments to County Jail.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	30	.....	30
Total.....	2,511	2,012	2,071	1,320	1,532	2,966	1,284	1,393	1,016	2,201	1,930	1,941	22,177

REPORT OF PROCEEDINGS OF THE POLICE COURT FOR THE YEAR ENDING
DECEMBER 31, 1897.

REPORT OF THE POLICE COURT.

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CITY CASES.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Amount of Fines Assessed.....	2,227 00	1,679 00	1,734 00	1,961 00	5,663 15	3,847 00	2,467 00	2,181 00	1,973 00	2,739 00	2,393 00	2,304 00	\$31,168 15
Amount of Costs Assessed.....	1,530 15	1,654 05	1,907 70	2,063 45	3,491 45	2,990 15	2,284 95	2,719 80	2,360 05	2,889 00	2,680 45	2,587 35	29,458 55
Am't Collected from Previous Month.....	13 50	.....	4 50	26 05	13 00	135 55	128 90	157 80	127 45	94 20	59 30	36 40	795 65
Total.....	3,770 65	3,333 05	3,646 20	4,050 50	9,167 60	6,972 70	4,880 85	5,058 60	4,460 50	5,722 20	5,131 75	5,227 75	\$61,422 35
Amount Collected in City Cases.....	855 75	857 05	1,066 85	1,270 45	6,397 15	3,702 55	2,281 55	2,649 35	2,292 90	2,273 05	1,992 00	2,159 65	\$27,768 90
Amount of Fines on Commitment to Workhouse.....	1,809 00	1,228 00	1,339 00	1,321 00	1,125 00	1,427 00	1,142 00	991 00	896 00	1,851 00	1,557 00	1,432 00	16,208 00
Amount of Costs on Commitment to Workhouse.....	814 40	888 90	943 60	959 40	955 30	1,079 25	913 70	1,096 85	911 90	1,202 00	1,194 50	1,365 10	12,324 90
Amount of Costs in Cases Nolléd.....	10 20	26 50	10 90	49 70	17 30	3 50	4 00	11 10	15 20	31 10	20 40	22 00	224 90
Amount of Costs in Cases Uncollected.....	153 30	268 10	249 95	362 50	646 35	595 00	485 50	206 85	251 00	280 45	263 45	195 10	3,937 55
Amount of Costs in Cases Dismissed.....	38 00	64 50	35 90	59 50	26 50	69 80	54 10	77 00	93 50	56 20	103 80	83 90	762 70
Amount of Costs in Cases on Error.....	.....	.....	.....	27 95	.....	95 60	.....	26 45	.....	25 40	.....	.....	175 40
Total.....	3,770 65	3,333 05	3,646 20	4,050 50	9,167 60	6,972 70	4,880 85	5,058 60	4,460 50	5,722 20	5,131 75	5,227 75	\$61,422 35
Amount of Jurors and Witness Fees Certified to City Auditor	114 00	195 00	140 50	224 00	68 00	104 50	103 00	135 00	141 50	110 50	136 50	100 50	\$1,573 00

REPORT OF THE POLICE COURT.

REPORT OF PROCEEDINGS OF THE POLICE COURT.—Continued.

CASES FROM JUSTICE COURTS.	Jan.	Feb.	March	April.	May.	June	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Amount of Costs in Cases Sentenced.....	.....	36 90	.....	.....	43 30	.....	28 70	.....	.....	.....	.....	.....	\$ 108 90
Amount of Costs in Cases Discharged.....	.....	137 00	.....	.....	155 65	86 90	41 00	113 25	107 35	305 60	.....	94 50	1,041 25
Amount of Costs in Cases Nolle.....	.....	.....	.....	.....	73 80	.....	.....	.....	.....	.....	.....	.....	73 80
Total.....	.....	173 90	.....	.....	272 75	86 90	69 70	113 25	107 35	305 60	.....	94 50	\$ 1,223 95
Amount of Witness and Jurors' Fees in State Cases.....	1,767 00	1,938 00	1,453 00	330 00	753 34	1,963 90	1,382 00	1,589 00	1,646 00	1,864 95	2,046 00	1,751 00	\$18,254 19
INES AND													
rt Fund.....	591 60	508 93	722 90	880 10	5,219 20	2,903 70	1,891 50	1,918 15	1,686 90	1,578 05	1,380 40	1,518 20	\$20,559 65
ice (Service of	171 65	229 10	220 95	270 35	781 45	509 85	373 05	463 70	343 50	454 50	387 70	401 45	4,647 25
Fund (Officers'	92 50	119 00	123 00	140 60	986 50	289 00	217 00	267 50	242 50	240 50	224 50	210 00	2,562 00
Total.....	855 75	857 05	1,066 85	1,270 45	6,987 15	3,702 55	2,281 55	2,649 35	2,272 90	2,273 05	1,992 60	2,129 65	\$27,768 50
ayaboga County.....	385 90	289 25	219 40	386 10	312 15	516 35	670 35	254 40	280 90	508 15	526 65	246 45	\$ 4,621 05
or of Police (Service of	82 40	66 70	72 50	123 35	86 90	106 90	170 35	93 35	67 00	94 90	118 25	78 85	1,165 55
Pension Fund (Officers'	19 00	21 00	26 00	44 00	24 00	67 00	44 00	23 00	31 00	49 00	105 00	32 00	486 00
Total.....	487 30	376 95	317 90	553 45	423 05	692 25	884 70	375 75	388 90	653 05	743 00	367 30	\$ 5,272 60
Grand Total in City and State Cases.....	1,353 05	1,229 00	1,784 76	1,325 90	6,820 20	4,284 60	3,165 25	3,025 10	2,661 80	2,925 10	2,740 60	2,466 95	\$34,041 50

REPORT OF PROCEEDINGS OF THE POLICE COURT.—Concluded.

REPORT OF THE POLICE COURT.

STATE CASES.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Amount of Fines Assessed.....	1,557 00	1,252 00	1,453 00	985 00	1,287 00	1,712 00	1,058 00	1,263 00	962 00	1,397 00	1,138 00	1,145 00	\$15,209 00
Amount of Costs Assessed.....	2,122 95	2,443 15	1,303 20	1,921 85	1,210 94	2,432 80	1,907 70	1,879 85	1,734 70	2,108 95	2,627 80	2,231 95	23,975 84
Amount of Costs from Previous Months...	40 00	16 80	25 75	6 60	74 65	40 55	111 95	7 35	50 00	51 50	26 05	31 90	503 10
Total	3,719 95	3,731 95	2,781 95	2,913 45	2,572 59	4,235 35	3,077 65	3,150 20	2,746 70	3,557 45	3,791 85	3,408 85	\$39,687 94
Amount Collected in State Cases.....	497 30	381 95	317 90	553 45	423 05	692 25	884 70	375 75	388 90	632 05	748 00	357 30	\$ 6,272 60
Amount of Fines on Commitments to Workhouse.....	1,281 00	996 00	1,218 00	713 10	1,186 00	1,409 00	838 00	1,151 00	796 00	725 00	743 00	1,000 00	12,058 10
Amount of Costs on Commitments to Workhouse.....	439 15	367 05	424 05	258 60	707 69	492 90	305 30	477 90	269 00	352 80	297 55	386 65	4,778 64
Amount of Costs in Cases Nolléd.....	54 00	29 00	40 05	147 00	12 00	55 00	63 00	5 00	97 00	48 40	72 20	37 20	659 85
Amount of Costs in Cases Uncollected and Jurors' Fees.....	1,071 00	895 15	479 95	797 05	64 10	961 60	699 90	818 45	845 75	848 05	921 80	1,244 15	9,646 95
Amount of Costs in Cases Dismissed.....	242 00	574 40	302 00	334 65	153 20	432 00	227 00	252 20	350 05	308 80	502 20	287 20	3,965 70
Amount of Costs in Cases in Error.....	135 50	480 40	.....	109 60	26 55	192 60	59 75	69 90	.....	622 35	507 10	96 35	2,306 10
Total	3,719 95	3,731 95	2,781 95	2,913 45	2,572 59	4,235 35	3,077 65	3,150 20	2,746 70	3,557 45	3,791 85	3,408 85	\$39,687 94
STATE EXAMINATIONS.													
Amount of Costs in Cases Bound Over....	442 50	221 35	599 50	278 70	247 70	485 60	255 80	277 20	639 75	494 65	570 15	229 70	\$ 4,742 60
Amount of Costs in Cases Discharged.....	50 20	16 00	15 00	.....	160 40	47 80	93 20	106 60	19 40	8 00	7 00	43 40	567 00
Amount of Costs in Cases Nolléd.....	5 60	.....	10 00	31 60	.....	55 00	2 00	.....	.....	203 55	.....	19 00	326 75
Total	498 30	237 35	624 50	310 30	408 10	588 40	351 00	383 80	659 15	706 20	577 15	292 10	\$ 5,636 35

RECAPITULATION.

JUSTICE CASES.

Verbal libel	7
Assault and battery	28
Embezzlement	3
Promoting a game of chance	2
Defrauding inn-keeper	1
Petit larceny	1
Verbal slander	1
Destroying property	5
Injuring property	2
Attempt to provoke a breach of peace	2
Fornication	1
Adultery	2
Evading payment of Toll	1
Total	56

STATE EXAMINATION.

Pocket picking	26
Burglary and larceny	79
Shooting with intent to kill	14
Robbery	34
Having burglar tools in possession	3
Grand larceny	50
Forgery	3
Cutting with intent to kill	13
Cutting with intent to wound	27
Burglary	10
Murder in second degree	7
Unlawfully meddling with railway property	5
Embezzlement	6
Assault with intent to kill	12
Arson	5
Attempt to commit burglary	3
Obtaining goods by false pretenses	2
Shooting with intent to wound	2
Rape upon a female child	1
Concealing stolen property	2
Obstructing railroad track	2
Assault with intent to rob	4
Uttering and publishing forged check	1
Assault with intent to commit rape	3
Maiming	1
Bigamy	1
Receiving stolen property	7

REPORT OF THE POLICE COURT.

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Horse stealing	8
Assault with intent to rape.....	2
Car Breaking.....	1
Abortion	1
Rape upon daughter.....	1
Stabbing with intent to wound.....	1
Rape.....	7
Adultery..	1
Manslaughter	5
Total.....	<u>350</u>

CITY CASES.

Intoxication.....	7,327
Disorderly conduct.....	364
Disturbance.....	330
Violating firearms ordinance.....	16
Violating sidewalk ordinance	498
Violating sewer ordinance	3
Violating peddlers' ordinance.....	79
Violating health ordinance	21
Violating property ordinance	132
Violating express ordinance.....	14
Destroying property.....	64
Suspicious persons.	419
Careless driving.....	8
Common beggar.....	67
Vagrancy	201
Common prostitute.....	195
Street soliciting.....	27
Violating street ordinance.....	49
Visiting house of ill-fame	219
Violating music ordinance.....	24
Residing house of ill-fame.....	190
Violating bill posters' ordinance.....	28
Known gambler.....	1
Violating street railway ordinance.....	44
Violating ice ordinance	1
Habitual intoxication.....	1
Violating bicycle ordinance.....	171
Visiting gambling room.....	1
Violating red light ordinance	7
Violating measure ordinance.....	5
Visiting opium joint.....	4
Violating plumbers' ordinance.....	4
Violating dog ordinance.....	1
Keeping house of ill-fame.....	76

Violating dray ordinance	7
Playing ball.....	1
Violating market ordinance.....	1
Keeping gambling room.....	15
Visiting gambling room.....	34
Violating bathing ordinance.....	12
Violating park rules.....	9
Selling pools.....	5
Keeping room for recording and registering bets.....	3
Gambling	10
Soliciting trade on street	2
Keeping offensive premises.....	1
Violating stall ordinance.....	1
Violating Sunday billiard ordinance.....	4
Total.....	10,696

STATE CASES.

Assault and battery	727
Petit larceny	836
Violating Railroad law.....	648
Neglecting to send minor to school	14
Destroying property.....	16
Violating junk law.....	11
Keeping house of ill-fame	17
Carrying concealed weapon	106
Keeping gambling room.....	2
Violating Sunday liquor law.....	56
Verbal libel.....	1
Obtaining money by false pretenses.....	16
Receiving stolen property.....	29
House breaking and larceny.....	6
Fornication.....	10
Embezzlement	19
Selling cigarettes to minors.....	7
Neglecting minor children.....	42
Truancy.....	124
Defrauding innkeeper.....	12
Cruelty to animals.....	45
Maliciously injuring property.....	8
Incorrigible conduct.....	23
Performing common labor on Sunday.....	3
Throwing stones at railroad cars.....	3
Indecent exposure of person.....	11
Selling liquors on election day.....	1
Selling pools.. ..	3
Suffering gaming in place.....	6

REPORT OF THE POLICE COURT.

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Adultery	7
Pointing firearms at a person	3
Having adulterated milk in possession.....	2
Threatening in a menacing manner	11
Selling tobacco to minors.....	6
Selling intoxicating liquor to minors.....	2
Keeping opium joint.....	3
Housebreaking.....	4
Trespassing	1
Obtaining property by false pretenses.....	1
Gambling	7
Aiding and abetting cock fight.....	7
Malicious destruction of trees.....	1
Malicious destruction of property.....	11
An assault.....	11
Overdriving a horse	3
Wrongfully using a horse.....	11
Visiting opium joint.....	4
Wrongfully wearing a badge.....	2
Obstructing officer.....	2
Contempt of court.....	1
Intoxication	1
Injuring property	3
Violating label law.....	1
Car breaking.....	1
Violating pawnbrokers law.....	1
Ball playing on Sunday.....	2
Keeping room for recording and registering bets, etc.....	1
Endeavoring to obstruct the due administration of justice.....	1
Violating livery stable license law.....	1
Fugitive from justice.....	6
Trespassing on railroad property.....	1
Escape from workhouse	3
Violating Sunday baseball law.....	18
Uttering and publishing forged tickets.....	1
Breaking and entering in the day time with intent to steal.....	1
Unlawfully obstructing street.....	1
Common nuisance.....	1
Bribery.....	2
Unlawfully obstructing street by railroad company.....	1
Selling cigars to minor.....	1
Entering premises to carry away poultry.....	2
Selling by false weight.....	1
Total.....	2,956

DEPARTMENT
OF
FIRE SERVICE.

Report of the Director of Fire Service.

CITY OF CLEVELAND, OHIO, January 1st, 1898.

TO THE HON. ROBERT E. MCKISSON,

Mayor of Cleveland, Ohio.

DEAR SIR:—In submitting to you the report of the Department of Fire for the year ending December 31st, 1897, containing the report of the Chief, Secretary, Superintendent of Machinery, Chief Operator, Boiler and Building Inspectors, Examiner of Engineers, City Electrician, Medical Officer, Department Veterinary and Fire Wardens, it will be useless for me to add anything more than what is contained in these reports.

The Secretary's report exhibits the resources and disbursements, the alarms and causes, the losses and insurance.

The Chief reports the condition and requirements, the establishing of new companies and the time of going into service, compares the loss of previous years, makes a summary statement of fires attended, miles run, fires worked at, hose used, hours worked, etc., making valuable suggestions as to future improvements.

The Superintendent of Machinery's report shows the condition of apparatus, additions made thereto, description of each engine and some recommendations.

The Medical Officer reports the diseases and injuries and the general health.

The Chief Operator, Building Inspector, Boiler Inspector, Examiner of Engineers and Electrician each give detailed statements of the condition of the respective branches of the department over which they have charge.

No new companies have been organized since the last report, but during the year a new engine house has been started and is now almost completed, and a new company will be placed therein as soon as practicable.

In conclusion I wish to state that the past year has been a very successful one, both financially and in efficiency of the work accomplished, and I desire to express my full appreciation of the Chief, his assistants and the members of the force to perform the various duties assigned them. Their united efforts have sustained the reputation of this department and placed it in the front rank.

I desire also to thank the Police Department for the many courtesies extended in aiding this department at fires.

Very respectfully submitted,

G. L. HECHLER,
Director of Fire Service.

Report of the Secretary.

DEPARTMENT OF FIRE,

OFFICE OF THE SECRETARY,

January 1, 1898.

HON. G. L. HECHLER,

Director of Fire Service.

SIR :—I herewith submit my report for the year 1897.

Very respectfully,

A. J. SPENCER,

Secretary.

FIRE DEPARTMENT FUND IN 1897.

RESOURCES.		
Cash balance January 1, 1897.....	\$ 7,501 61	
Received from taxes, city levy, etc.....	422,946 42	
Received from license fees (Building Inspector, Examiner, etc.)....	5,857 19	
Received from license fees (Boiler Inspector).....	770 00	
Received from sales	1,146 95	
Received from services	20 00	
Received from transfers.....	37,350 00	
Received from rebates.....	11 73	
Total receipts.....		\$475,603 90

FIRE DEPARTMENT FUND IN 1897.—Concluded.

	DISBURSEMENTS.		
1	Interest.....	\$ 12,350 00	
2	Salaries.....	390,628 59	
3	.....	.....
4	Office furniture.....	35 50	
5	Station furniture.....	266 97	
6	Apparatus.....	5,955 73	
7	Horses and harness.....	3,382 61	
8	Engine No. 24.....	3,250 00	
9	Office supplies and stationery.....	510 18	
10	Fuel, light, water and ice.....	8,202 99	
11	Care of horses (feed, bedding and shoeing).....	12,354 45	
12	Repairs to apparatus.....	3,861 49	
13	Repairs to buildings	2,427 04	
14	Miscellaneous supplies	5,404 64	
15	.....	.....
16	Contingent	808 93	
17	Grading, paving, etc.....	208 88	
18	Land	2,500 00	
19	Buildings and reservoirs.....	3,530 69	
	Total disbursements in 1897.....	.....	455,978 69
	Balance January 1, 1898.....	.....	\$ 19,625 21

COMPANY EXPENSES IN 1897.

Companies.	Interest.	Salaries.	Office Furni- ture.	Station Fur- niture.	Apparatus.	Horses and Harness.	Engine No. 24.	Office Supplies
Office	\$.....	\$ 1,599 84	\$ 5 00	\$.....	\$.....	\$.....	\$.....	\$121 26
Signal Service.....	7,233 54	.....	.....	519 12	.....	.....	19 97
Engine Co. No. 1.....	18,713 00	.....	14 75	203 20	4 67	.....	.....
“ “ 2.....	12,877 00	.....	11 00	6 00	17 75	.....	.....
“ “ 3.....	9,870 28	.....	4 00	31 62	.....	.....	.....
“ “ 4.....	10,068 89	.....	.....	7 26	.....	.....	.....
“ “ 5.....	9,808 10	.....	.....	76 00	.....	.....	.....
“ “ 6.....	11,719 52	.....	8 15	.....	.....	.....	.....
“ “ 7.....	10,051 57	.....	.....	.....	.....	.....	.....
“ “ 8.....	9,914 14	.....	.....	6 00	16 50	.....	.....
“ “ 9.....	10,069 58	.....	1 00	.....	16 50	.....	.....
“ “ 10.....	9,115 02	.....	.....	.....	.....	.....	.....
“ “ 11.....	9,119 76	.....	78 75	.....	.....	.....	.....
“ “ 12.....	9,860 24	.....	.....	.....	.....	.....	.....
“ “ 13.....	9,138 56	.....	11 00	.....	.....	.....	.....
“ “ 14.....	10,917 74	.....	5 00	.....	1 25	.....	.....
“ “ 15.....	9,023 90	.....	.....	.....	.....	.....	.....
“ “ 16.....	9,534 04	.....	8 00	.....	.....	.....	.....
“ “ 17.....	10,047 05	.....	.....	.....	5 00	.....	.....
“ “ 18.....	11,894 25	.....	.....	6 00	.....	.....	50
“ “ 19.....	9,775 54	.....	.....	24 00	.....	.....	.....
“ “ 20.....	9,081 29	.....	.....	47 30	.....	.....	.....
“ “ 21.....	9,524 98	.....	6 75	.....	.....	.....	.....
“ “ 22.....	9,124 05	.....	.....	.....	.....	.....	.....
“ “ 23.....	9,122 19	.....	.....	52 15	9 00	.....	.....
“ “ 24.....	8,216 65	.....	.....	6 00	.....	3,250 00	.....

COMPANY EXPENSES IN 1897.

Fuel and Light.	Care of Horses	Repairs Appa- ratus.	Repairs to Buildings.	Miscellaneous Supplies.	Contingent.	Paving.	Land.	Buildings and Reservoirs.	Totals.
\$.....	\$.....	\$.....	\$ 8 65	\$ 21 10	\$ 49 35	\$.....	\$.....	\$.....	\$ 1,305 20
.....	41 00	22 83	13 86	686 94	.....	.....	.....	.....	8,537 26
578 59	1,300 26	240 18	15 75	122 15	.....	.....	.....	.....	21,192 63
266 74	423 51	85 67	13 06	67 28	.....	.....	.....	.....	13,768 90
334 80	574 03	97 84	14 88	41 84	.....	.....	.....	.....	10,969 29
425 17	682 30	74 77	171 53	36 26	.....	.....	.....	.....	11,486 18
229 61	256 09	28 88	99	36 82	.....	.....	.....	.....	10,436 49
266 02	590 61	67 76	58 98	67 43	.....	.....	.....	.....	12,778 47
150 39	303 27	94 29	58 97	36 20	60 49	.....	.....	.....	10,755 18
249 26	331 60	158 07	128 26	54 52	.....	.....	.....	38 33	10,896 68
259 96	390 35	24 03	221 44	52 74	.....	.....	.....	.....	11,035 60
197 11	429 45	10 73	68 34	52 61	.....	.....	.....	.....	9,873 26
253 36	321 77	9 25	7 89	70 71	.....	.....	.....	.....	9,861 49
246 59	409 61	41 63	34 02	53 05	.....	8 20	.....	.....	10,653 34
168 06	218 54	59 94	71 43	39 94	.....	.....	.....	.....	9,707 47
228 06	505 75	199 71	80 83	66 70	.....	.....	.....	.....	12,005 04
1,100 39	.....	557 94	33 60	166 28	.....	.....	.....	.....	10,882 11
203 30	309 67	12 64	41 95	54 51	.....	.....	.....	.....	10,164 11
298 39	653 97	98 82	102 43	39 64	.....	.....	.....	.....	11,245 30
226 10	553 00	46 70	11 98	32 02	88	.....	.....	.....	12,771 43
233 25	212 25	47 39	10 12	39 88	.....	.....	.....	.....	10,342 43
202 28	270 19	38 53	5 50	19 55	.....	.....	.....	.....	9,664 64
796 56	.....	193 58	44 15	138 76	31 89	64 45	.....	.....	10,791 12
202 81	380 62	70 46	6 90	24 66	.....	.....	.....	.....	9,809 50
212 27	323 25	1 99	1 77	25 20	.....	79 00	.....	.....	9,826 82
180 02	396 01	209 40	41 69	56 89	.....	.....	.....	.....	12,356 66

COMPANY EXPENSES IN 1897.—Concluded.

Companies.	Interest.	Salaries.	Office Furni- ture.	Station Fur- niture.	Apparatus.	Horses and Harness.	Engine No. 24.	Office Sup- plies.
Engine Co. No. 25.....	\$.....	\$ 9,025 51	\$....	\$ 9 00	\$ 6 00	.....	.....	.....
" " 26.....
Hook and Ladder Co. 1	14,218 80	.....	12 00	6 00	.....	.....	.....
" " 2	14,110 32	.....	.....	.....	.....	.....	.....
" " 3	9,611 13	.....	6 00	.....	.....	.....	.....
" " 4	8,843 07	.....	.....	.....	.....	.....	.....
" " 5	9,722 18	.....	4 25	38 00	.....	.....	.....
" " 6	10,685 56	.....	.....	.....	4 50	.....	.....
" " 7	9,663 89	.....	.....	.....	2 00	.....	.....
" " 8	5,943 98	.....	.....	.....	.....	.....	.....
" " 9	6,868 42	.....	.....	.....	.....	.....	.....
Hose Co. No. 1.....	4,969 24	.....	.....	.....	.....	.....	.....
Chief	2,500 08	12 50	.....	.....	1 55	.....	1 67
1st Assistant.....	2,100 00	.....	.....	.....	.....	.....	.....
2nd "	1,899 84	.....	.....	.....	.....	.....	.....
3rd "	1,800 00	.....	.....	.....	85	.....	.....
4th "	1,775 04	.....	.....	.....	2 75	.....	.....
5th "	1,699 92	.....	.....	.....	.....	.....	.....
Building Inspector....	6,100 08	7 00	.....	.....	.....	.....	117 22
Boiler "	2,100 00	.....	.....	9 00	.....	.....	30 72
Examiner of Engineers	1,500 00	.....	.....	.....	.....	.....	15 88
Electrician.....	1,500 00	7 00	.....	.....	.....	.....	6 35
Training Stable.....	1,920 00	.....	.....	.....	.....	.....	.....
Undivided.....	12,350 00	6,629 84	4 00	84 32	4,741 08	3,473 29	.....	196 70
Totals.....	\$12,350 00	\$390,628 59	\$35 50	\$265 97	\$5,775 73	\$3,562 61	\$3,250 00	\$510 18

COMPANY EXPENSES IN 1897.—Concluded.

Fuel and Light.	Care of Horses	Repairs Appa- ratus.	Repairs to Buildings.	Miscellaneous Supplies.	Contingent.	Paving.	Land.	Buildings and Reservoirs.	Totals.
\$ 306 09	\$ 359 79	\$ 10 17	\$ 93 67	\$ 25 88	\$.....	\$ 14 40	\$.....	\$.....	\$ 9,850 51
.....	.....	.....	.....	.....	.....	.....	.....	3,477 13	8,477 13
.....	201 95	26 58	5 62	96 92	.....	.....	.....	.....	14,567 87
.....	110 55	294 44	19 65	72 74	.....	.....	.....	.....	14,607 70
.....	52 50	6 86	3 47	24 80	.....	.....	.....	.....	9,704 76
.....	50 00	19 19	.....	29 84	.....	.....	.....	.....	8,942 10
122 35	206 69	10 37	213 43	32 34	.....	.....	.....	.....	10,349 61
.....	91 64	8 57	3 46	33 54	.....	.....	.....	.....	10,827 27
.....	90 13	170 94	13 23	34 67	.....	.....	.....	.....	9,974 86
.....	38 50	.....	7 11	13 65	.....	.....	.....	.....	6,001 24
.....	68 49	32 45	2 65	23 26	.....	.....	.....	.....	6,995 27
.....	158 68	56 44	81	12 71	.....	.....	.....	.....	5,197 88
.....	56 00	59 50	.....	66	30 00	.....	.....	.....	2,661 96
.....	37 00	43 60	1 00	5 66	.....	.....	.....	.....	2,187 26
.....	76 25	68 60	.....	75	.....	.....	.....	.....	2,045 44
.....	57 50	15 38	.....	4 35	.....	.....	.....	.....	1,878 08
.....	67 75	19 20	2 02	13	.....	.....	.....	.....	1,866 89
.....	48 75	75 45	.....	.....	.....	.....	.....	.....	1,824 12
.....	.....	.....	51 23	21 97	25 00	.....	.....	.....	6,322 50
.....	26 25	.....	.....	.....	.....	.....	.....	.....	2,165 97
.....	.....	.....	.....	10 00	.....	.....	.....	.....	1,525 88
.....	.....	.....	.....	3 00	.....	.....	.....	.....	1,516 26
80 17	661 33	.....	180 51	63 70	.....	.....	.....	.....	2,905 71
195 29	.....	450 72	597 60	2,773 60	550 83	103 32	2,500 00	315 23	32,875 82
\$8,202 99	\$12,334 85	\$3,861 49	\$2,464 43	\$5,387 85	\$748 44	\$269 37	\$2,500 00	\$3,830 69	\$455,978 69

CONDITION OF THE FIREMEN'S PENSION FUND, 1897.

RESOURCES.		
Cash balance January 1, 1897.....	\$ 5,228 39	
Collection from County Treasurer.....	37,410 46	
Interest on bonds and cash deposits.....	11,446 03	
Assessment on salaries.....	1,865 47	
Witness fees.....	18 50	
Donations.....	350 00	
Fines collected	195 00	
Cash receipts.....		\$ 56,513 85
Amount invested in bonds.....		195,500 00
DISBURSEMENTS.		\$252,013 85
Cash paid to pensioners.....	\$26,480 59	
Cash paid for box rent.....	20 00	
		26,500 59
Cash balance January 1, 1893.....		\$ 30,013 26

There are 32 retired members on pay roll.

There is 1 discharged member on pay roll.

There are 25 widows of deceased firemen.

There is 1 widowed mother who was dependent on her son for support.

There are 31 children.

—
90 beneficiaries.

823

31, 1897.

[illegible]

NUMBER OF MEN ON FIRE FORCE DECEMBER
31, 1897.—Concluded.

		Captains.	Lieutenants.	Engineers.	As-istant Engineers	Firemen.	Cadets at \$75.	Cadets at \$70.	Cadets at \$60.	Cadets at \$50.	Substitutes.	Totals.
<i>Forward.....</i>												
Engine Co. No. 13.....		1	1	1	1	5						9
“ 14.....		1	1	1	1	6					1	11
“ 15.....		1	1	1		6						9
“ 16.....		1		1	1	5		1			1	10
“ 17.....		1	1	1	1	5					1	10
“ 18.....		1	1	1	1	7	1					12
“ 19.....		1	1	1	1	5	1					10
“ 20.....		1	1	1	1	5						9
“ 21.....		1	1		1	6			1			10
“ 22.....		1	1	1	1	5						9
“ 23.....		1	1	1	1	5						9
“ 24.....		1	1	1	1	4						8
“ 25.....		1	1	1	1	4			1			9
Hose Co. No. 1.....		1	1			3						5
Hook and Ladder Co. No. 1.....		1	1			10	1		2			15
“ “ 2.....		1				11	2				1	15
“ “ 3.....		1	1			8						10
“ “ 4.....		1	1			6		1				9
“ “ 5.....		1	1			7					1	10
“ “ 6.....		1	1			9						11
“ “ 7.....		1	1			8						10
“ “ 8.....		1				5						6
“ “ 9.....		1				6						7
Training stable.....						2						2
Totals.....	19	35	32	26	24	223	7	3	4		7	378

ALARMS, LOSSES AND INSURANCE IN 1897.

1897.	Box Alarms	Still Alarms	Total Alarms	Owners' Loss.	Occupants' Loss.	Owners' Insurance.	Occupants' Insurance.
January	88	30	118	\$ 9,973 70	\$ 18,220 90	\$ 483,800 00	\$ 51,250 00
February	63	16	79	19,333 14	52,157 89	93,600 00	97,300 00
March	69	27	96	24,266 23	18,510 87	360,425 00	133,725 00
April	77	34	111	49,740 42	5,206 54	463,795 00	13,175 00
May.....	62	14	76	6,792 69	2,835 22	75,150 00	13,500 00
June.....	57	29	86	9,720 40	5,647 72	49,050 00	22,700 00
July	80	24	104	27,672 60	8,747 84	408,630 00	57,650 00
August	61	20	81	23,041 05	16,717 55	104,530 00	59,225 00
September....	55	18	73	7,651 01	6,196 80	44,200 00	34,500 00
October.....	71	41	112	14,079 57	3,554 55	55,110 00	13,050 00
November.....	51	29	80	9,463 41	2,754 00	80,525 00	11,900 00
December.....	59	25	84	77,243 99	153,536 17	259,025 00	335,373 50
Totals	793	307	1,100	\$278,978 21	\$294,076 05	\$2,427,840 00	\$843,348 50

Owners' loss.....	\$278,978 21	Owners' insurance.....	\$2,427,840 00
Occupants' loss.....	294,076 05	Occupants' insurance.....	843,348 50
Total..	\$573,054 26	Total.....	\$3,271,188 50
Loss in 1896.....	460,842 55		
	\$112,211 71 Difference.		

OFFICERS AND MEMBERS WITH SALARIES.

	Men.	Salaries per Annum.
Chief, James W. Dickinson	1	\$ 2,500 00
1st Assistant Chief, Henry H. Rebbeck	1	2,100 00
2d " " George A. Wallace	1	1,900 00
3d " " John Andrew	1	1,800 00
4th " " Charles Dougherty	1	1,775 00
5th " " Henry J. Delaney	1	1,700 00
Secretary, A. J. Spencer	1	1,600 00
Superintendent of Machinery, C. D. Murphy	1	1,300 00
Storekeeper, Perry H. Auxer	1	1,020 00
Medical Officer, D. L. Travis	1	900 00
Veterinary, Nathan H. Downs	1	600 00
Fire Wardens Erwin Reif and Frank Miller, each	2	1,140 00
Painter, Conrad Lippus	1	720 00
Chief Operator, Joseph Rothgery	1	1,200 00
Operators, each	3	1,030 00
Lineman	1	1,030 00
Captains, each	35	1,150 00
Lieutenants, each	32	1,030 00
Engineers, each	24	1,140 00
Assistant Engineers, each	24	1,020 00
Firemen, each	223	960 00
Cadets " at \$75	7	900 00
Cadets " at \$70	3	840 00
Cadets " at \$30	4	720 00
Cadets " at \$50		
Subs on account of vacancies, each	7	600 00
On the Fire Force	378	
Building Inspector, John E. Thomas	1	2,500 00
Assistant Building Inspector, W. D. Campbell	1	1,500 00
Deputy Building Inspector, James D. Cockburn	1	1,200 00
Deputy Building Inspector, H. J. Ellen	1	900 00
Boiler Inspector, Thomas Caldwell	1	1,500 00
Clerk Boiler Inspector, Jacob Willard	1	600 00
Examiner of Engineers, F. G. Kaufholz	1	1,500 00
Electrician, Geo. M. Hoag	1	1,500 00
Names on the pay roll	386	

ALARMS AND CAUSES IN 1897.

Causes.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.
Accident.....	.....	.....	2	.....	.....	.....	.....	1	1	...	3	1	8
Ash vault.....	1	.....	2	1	.....	.....	.....	.....	.....	.....	.....	.....	4
Auxiliary alarm.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	2
Bonfire.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	2
Boys smoking.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
Boys with fire-crackers.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
Boys with fire....	.....	1	.....	1	.....	.....	.....	.....	.....	1	1	1	5
Boys with matches.....	.....	.....	1	.....	.....	1	.....	...	2	3	.....	.....	7
Carelessness.....	1	1	1	4	1	2	2	1	.....	4	1	2	20
Carelessness with gasoline.....	4	3	1	3	1	2	7	7	1	1	1	.....	31
Carelessness with matches.....	7	1	2	4	6	2	4	4	4	2	3	4	43
Carelessness with lamp.....	2	1	3	3	1	1	2	2	2	3	1	3	24
Carelessness with cigar.....	1	.....	.....	1	1	1	2	.....	.....	.....	.....	.....	6
Carelessness with gas meter....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Carelessness with gas stove....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
Carelessness with red fire .....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1
Carelessness with paper.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
Carelessness with coal oil.....	.....	.....	.....	.....	1	.....	1	1	3	.....	1	1	8
Carelessness with hot ashes....	2	2	.....	3	.....	.....	.....	.....	.....	1	.....	2	10
Carelessness with gas jet.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
Carelessness with fire in grate..	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Carelessness with oil stove.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	2	3
Carelessness with gasol' stove.	.....	.....	2	1	3	4	4	1	2	.....	2	.....	19
Carelessness with lantern.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Carelessness with rags.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
Carelessness with tar .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Carelessness with ash pan.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Carelessness with pipe.....	.....	1	.....	.....	.....	.....	1	.....	.....	2	.....	.....	4
Carelessness with benzine.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Carelessness with candle.....	.....	1	.....	1	1	.....	.....	.....	.....	4	.....	3	10
Carelessness with range....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
Carelessness with torch.....	1	1	.....	2	2	1	.....	1	1	.....	.....	.....	9

ALARMS AND CAUSES IN 1897.—Continued.

Causes.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.
Carelessness boiling lard	1	...	...	...	...	...	...	...	...	...	...	...	1
Carelessness cleaning goods } with benzine..... }	...	...	...	...	...	...	...	1	...	...	...	...	1
Carelessness ironing clothes...	...	...	1	...	...	...	...	...	...	...	...	...	1
Carelessness lighting gas .....	...	...	...	...	...	...	...	...	...	...	...	1	1
Carelessness lighting fire with } coal oil..... }	...	1	...	1	1	...	...	...	...	1	...	1	5
Carelessness testing electric } lamp..... }	...	...	...	...	...	...	...	...	1	...	...	...	1
Children playing with fire.....	...	...	...	2	2	1	2	...	2	...	...	1	10
Children playing with fireworks	...	...	...	...	...	1	...	...	...	...	...	...	1
Children playing with matches.	1	3	1	...	3	1	1	3	4	4	1	1	23
Chimney burning.....	...	7	6	2	2	2	1	2	1	2	3	7	35
Christmas tree.....	...	...	...	...	...	...	...	...	...	...	...	3	3
Clothes too near stove.....	...	1	...	1	...	...	1	...	1	...	1	...	5
Curtain blowing into gas .....	...	...	...	...	3	2	2	2	2	1	...	1	13
Curtain too near stove.....	1	...	...	...	...	...	...	...	...	...	...	...	1
Defective chimney.....	19	9	5	7	6	2	2	3	4	4	5	7	73
Defective grate.....	4	...	1	...	2	...	...	...	...	1	4	...	12
Defective stovepipe.....	...	1	1	...	...	...	...	...	...	...	1	...	3
Defective furnace pipe.....	...	...	...	...	...	...	...	...	...	...	...	1	1
Defective stopper.....	...	...	...	...	...	...	...	...	...	...	...	1	1
Defective furnace.....	...	...	...	...	...	...	...	...	...	1	1	...	2
Defective range.....	...	...	...	...	...	...	...	1	1	...	1	...	3
Defective oil stove.....	...	...	...	...	...	...	...	...	...	...	...	1	1
Drapery too near gas jet.....	...	...	...	1	...	...	...	...	...	...	...	...	1
Drunken man kicked stove over	1	...	...	...	...	...	...	...	...	...	...	...	1
Drying tobacco .....	...	...	...	...	...	...	...	...	...	...	1	...	1
Electricity	3	...	...	1	1	...	...	...	...	1	...	...	6
Electric light	1	...	...	...	...	1	...	...	...	...	...	...	2
Electric light wire.....	1	...	2	2	...	...	2	1	1	...	1	...	10
Explosion.....	...	1	...	...	1	...	1	...	...	...	...	1	4
Explosion of gas.....	...	...	1	...	...	...	...	...	...	...	...	...	1
Explosion of gasoline.....	...	...	...	1	...	...	...	...	...	...	...	...	1
Explosion of gasoline brazer..	...	...	...	...	...	...	1	...	...	...	...	...	1

ALARMS AND CAUSES IN 1897.—Continued.

Causes.	January.	February.	March.	April.	May.	June.	July.	August	September.	October.	November.	December.	Totals.
Explosion of gasoline stove....	....	....	....	....	1	....	1	...	....	1	2	....	5
Explosion of gasoline welder..	....	....	....	....	....	....	....	1	....	....	....	....	1
Explosion of kinetoscope mach.	....	....	....	....	....	1	....	....	....	....	....	....	1
Explosion of lamp.....	4	4	....	3	....	4	4	1	6	2	1	...	29
Explosion of oil stove. ....	....	....	....	....	....	....	....	....	....	....	1	....	1
Explosion of tinner's pot.....	....	....	....	....	....	....	....	....	....	1	....	....	1
False alarms.....	3	....	3	2	3	2	....	1	....	....	1	1	16
Fireworks.....	....	....	....	....	....	....	3	....	....	....	....	....	3
Firecrackers.....	....	....	....	....	....	....	8	....	....	....	....	....	8
Flashlight.....	....	....	1	....	....	....	....	....	....	....	....	....	1
Friction.....	....	....	....	1	....	....	....	....	....	....	....	....	1
Fumigating.....	....	....	....	....	....	....	1	1	....	....	....	....	2
Gas jet.....	....	....	....	....	....	....	....	....	....	....	....	1	1
Gas jet too near paper.....	....	....	1	....	....	....	....	....	....	....	....	....	1
Gas jet too near curtain.....	....	....	1	....	....	....	....	....	....	....	....	....	1
Gasoline stove upset.....	1	....	....	....	....	....	....	....	....	....	....	....	1
Grass burning.....	....	....	....	....	....	1	...	1	....	5	....	....	7
Grease boiling over.....	....	....	....	....	....	1	....	....	1	....	....	....	2
Gasoline.....	....	....	....	....	....	....	1	....	....	....	....	....	1
Gnats swarming .....	....	....	....	....	....	....	3	....	....	....	....	....	3
Hot ashes.....	1	....	....	....	....	....	....	1	..	1	2	....	5
Hot coal dropping from stove..	....	1	....	....	....	....	....	....	....	....	....	....	1
Hot water pipe bursted.....	....	....	....	....	....	1	....	....	....	....	....	....	1
Incendiary	4	1	4	6	4	5	3	7	5	5	4	5	53
Leaky gas meter.....	....	....	....	....	....	....	....	....	....	....	1	....	1
Kettle of tar.....	....	....	....	....	....	....	1	....	....	....	....	....	1
Lamp upset.. ..	1	3	3	....	....	....	....	....	2	1	1	1	12
Leaky oil stove .....	....	....	....	1	....	....	....	....	....	2	....	....	3
Leaky still.	1	....	....	....	....	....	....	....	....	....	....	....	1
Leaky gasoline stove .....	....	....	....	2	....	2	5	5	1	1	3	....	19
Leaky gasoline pipe.....	....	....	....	....	....	....	....	....	....	1	....	....	1
Leather dust on roof.....	....	....	....	....	....	....	1	....	....	....	....	....	1

ALARMS AND CAUSES IN 1897.—Continued.

Causes.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.
Lightning.....							2	2					4
Mice with matches.											1	1	2
No stopper in chimney.....						1							1
Old fire broke out.....			1	3	2	1						1	8
Out of city.	4		2	1		1	2	1	1	4	1		17
Overheating	1		1										2
Overheated chimney.....											1	1	2
Overheated furnace.....	2	2	1	1	1	2					1	1	11
Overheated grate.....	1												1
Overheated kettle.....				1	1	1			1				4
Overheated oven.....	1												1
Overheated smokehouse						1				1			2
Overheated stack											1		1
Overheated stove	1	1	4				1	1	2	2	3	1	16
Overheated varnish kettle.....							1						1
Pull down chimney.....		1											1
Paper in stovepipe hole.....				1									1
Rags burning.....			1										1
Rags in chimney hole.....											1		1
Reflection				1			1				1		3
Rubbish burning.....	1		2	5	2	6	4	1	6	19	6	1	53
Set on fire by boys.....											1		1
Sawdust in cuspidore.....							1						1
Sparks.....	4	9	12	22	12	15	7	13	7	12	3	4	120
Spontaneous combustion	3						2	3	3		2	2	15
Smoke.....			1	1									2
Smoky chimney.....	2			2		2						2	8
Smoky furnace											1	1	2
Smoky gas jet.....				1									1
Smoky grate.....	1					1						1	3
Smoky salamander		1	1										2
Smoky stove.....	2		1		1	1	1	2			1		9

ALARMS AND CAUSES IN 1897.—Concluded.

Causes.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.
Smoking hams.....	1	....	....	....	....	....	....	....	....	....	....	....	1
Smoking out bees.....	....	....	....	....	....	....	....	1	....	....	....	....	1
Smokestack too near wood....	....	....	....	....	....	....	1	....	....	....	....	....	1
Smudge from rosin.....	....	1	....	....	....	....	....	....	....	....	....	....	1
Slack lime.....	....	....	....	....	....	....	....	....	1	....	....	....	1
Steampipe burst.....	....	1	....	....	....	....	....	....	....	....	....	....	1
Swinging gas bracket.....	....	....	....	....	....	....	1	....	....	....	....	....	1
Stove too near woodwork.....	....	....	....	....	....	....	....	....	....	....	....	1	1
Stove upset.....	....	2	2	....	....	....	....	....	....	....	....	1	5
Stovepipe too near woodwork..	....	....	1	1	1	1	....	....	....	....	....	....	4
Thawing out pipe.....	9	....	....	....	....	....	....	....	....	....	1	2	12
Tramps.....	....	....	....	....	....	....	2	1	....	1	....	....	4
Tar still.....	....	....	1	....	....	....	....	....	....	....	....	....	1
Unknown.....	11	12	14	11	10	7	7	6	3	15	5	8	109
Unnecessary.....	3	2	3	....	....	2	3	....	....	....	....	....	13
Water back exploded.....	1	....	....	....	....	....	....	....	....	....	....	....	1
Woodwork too near chimney..	1	....	2	....	....	....	....	....	....	....	....	....	3
Woodwork too near steampipe.	....	....	1	1	....	....	....	....	....	....	....	....	2
Woodwork too near stove..	....	2	....	....	....	....	....	....	....	....	....	....	2
Totals.....	118	79	96	111	76	86	104	81	73	112	80	84	

LIST OF CASUALTIES IN 1897.

January 12th.—Fire in the Campbell Block, Mrs. Francis Paynent, in descending in the fire escape had two of her fingers crushed.

January 29th.—Fire at 78 Barber avenue, Julius Spang, four horses burned to death.

February 3d.—Fire at 181 McHenry street, Mrs. Sandman burned on arms and face.

February 19th.—Fire at 663 Canal street, Mrs. Jacob Chelitz and three children were badly burned, John Chelitz, Agnes and Victoria Chelitz were burned so badly that they died from their injuries received.

March 3d.—Fire at 176 Quincy, John J. Oole upset a lamp and was burned slightly.

March 19th.—Fire at the 153 Seneca street, Mr. Drake was burned on hands and face.

March 22nd.—Fire at 191 Croton street, James Gottfried was burned on hands and face.

March 30th.—An accident occurred at 317 Huron street, Charles Davidson was killed.

April 1st.—Fire at 93 Croton street, Miss Bartara Herring in pouring coal oil in a stove was burned so that she died the following day.

April 3d.—Fire 144 Orange, Albert Schill burned on hands.

April 6th.—Fire at 135 Franklin avenue, two sisters, Mrs. H. Vannister and Mrs. W. Thompson were burned so badly that both died from the effects of the injuries.

April 20th.—Fire at 140 Prospect street, Miss Sarah Anderson was burned to death.

April 26th.—Fire at 170 Liberty street, Mrs. Gillson burned on her hands.

April 29th.—Fire at 72 Pittsburgh street, one horse burned to death.

May 10th.—Fire at 198 Wason, Mrs. V. Benner burned badly on hands and face.

May 11th.—Fire at 262 Scovill avenue, Mrs. James Cassidy burned slightly.

LIST OF CASUALTIES IN 1897.—Continued.

May 25th.—Fire at 18 Brooker avenue, Mrs. A. Kortinck and J. Pesta burned on hands.

June 5th.—Fire at 129 Erie street, lamp exploded and Mrs. Anna Smith was burned so badly that she died soon after in the hospital.

June 15th.—Fire at 169 Chestnut street, Mrs. Hart burned on hands and face.

July 4th.—At a fire on Wason street machine shop Capt. Chas. Knapp injured.

July 5th.—Fire at 1777 Superior, a barn struck by lightning and two horses were burned to death.

July 9th.—Fire at 17½ Lees' court, Mrs. Rosenberg burned quite badly.

July 13th.—Fire at 13 Mayflower street, Mr. Fennell burned on hands.

July 17th.—Fire at 391 Hamilton street, Henry McElenhany burned on hands.

August 2nd.—Fire at 1607 Detroit street, Miss Lena Schroeder, burned her hands and face; fire at 65 Church street, Mary Lucy Gordon burned her hands.

August 11th.—Fire at 29 Detroit street, Miss Annie Kelley severely burned.

August 15th.—While working on a fire at 3¼ Starkweather avenue, Capt. W. A. Reynolds fell dead.

August 31st.—Fire at 86, J. Bundy and Joseph Bostra were badly injured by falling wall.

September 3d.—Fire at 2553 Broadway, Capt. W. H. Ney broke his arm, Capt. Mulcahy was burned on his ankle, Patrick Ruddy cut his wrist badly and Louis Vance injured on his knee.

September 16th.—Fire at Turney avenue, John Flynn injured his foot; A boy, E. Ruffle, was caught in an elevator at 71 Ontario street and the firemen were obliged to saw the bottom out to relieve him. He was taken to the hospital.

September 18th.—An alarm from box 427 called out Hook and Ladder Company No. 4, and when crossing the track at Ætna street a passenger train demolished the truck, and Capt. Grant Gairns, Fireman Thomas Ax-ford, Fireman Michael Falvey and James Nesbitt were injured, also the flagman, James Cullen.

October 16th.—Fire at 21 Lasalle street caused by children playing with matches, little Earl Lovejoy, 3 years old, was burned to death.

LIST OF CASUALTIES IN 1897.—Concluded.

November 6th.—J. C. Rester's dwelling caught fire by upsetting a lamp at 2 Viola street, and Mr. Rester burned his hands and face.

November 21st.—Fire at 1213 Central avenue, Richard White slightly burned; the floor in the M. E. Church on Forest street fell in and Emma Carter was severely injured, Mary Artes and Isabella Smalle were slightly injured.

November 25th.—While responding to an alarm from Box 342, horse No. 168 dropped dead.

December 23d.—At 5:23 p. m. a fire broke out in the Power Block on Frankfort street, which proved to be the most disastrous fire during the year. At this fire Lieut. Wm. B. MacFeeters of Engine Company No. 1, fell down an elevator shaft from the fourth story. He was taken to the hospital where he died soon after his arrival there.

Report of Chief.

CLEVELAND, OHIO, January 1, 1898.

HON. G. L. HECHLER,

Director of Fire Service.

DEAR SIR:—I have the honor to submit to you my seventeenth annual report, comprising the work and condition of the Cleveland Fire Department for the year ending December 31, 1897.

During the past year the Department responded to 1,100 alarms, which is 100 more than the year previous.

Of these 793 were box alarms and 307 were still alarms. There were 462 working fires, which was 61 more than in 1896. Of this number there were 21 calls for assistance and 14 false alarms.

The loss by fire during the past year was \$573,054.26, divided as follows: On buildings, \$278,978.21; on contents, \$294,076.05.

The Department at present consists of 377 officers and men, 148 horses and 119 pieces of apparatus, which comprises 25 engine companies, 9 hook and ladder companies, 3 chemical engines, 1 hose company, 1 water tower and 1 aerial Scott Uda ladder, engine companies 15 and 21 being fire boats.

The Department has at the present time 42,555 feet of fire hose of different sizes. Just here I would like to call your attention to the necessity of extending the pipe lines for the fire boats, and advisability of placing a large two-horse wagon for the purpose of carrying 3½-inch hose and other necessities needed for the fire boat pipe lines.

To the telegraph department I would call special attention, and I would also recommend a change in making calls for assistance at fires, and to the replacing of some of the older engines with new and lighter ones.

The discipline of the Department is good. The state law regulating the Department should be changed to conform with the Department. We now have a chief, an assistant chief and battalion chiefs, while the state law provides for a chief and assistant chiefs, but no battalion chiefs.

The salaries ought to be equalized to conform more with the duties performed.

I would state here that Secretary Spencer is entitled to an assistant, and that in most departments the chief is allowed a clerk, and an assistant could fill both positions.

The Benefit Associations of the Fire Department are in good condition. The Firemen's Life Insurance paid out \$7,585.00 death loss and \$17.50 running expenses. The Relief Association paid out in sick claims \$2,352.00, death claims \$400.00, and other claims, the total amounting to \$2,874.99. There is a cash balance to its credit in the bank amounting to \$5,477.92.

The Pension Fund has now on its roll thirty-two old and disabled firemen, twenty-five widows and thirty-one children. In taking care of these the Board expended \$26,480.59 during the past year.

The untimely death of Lieutenant William MacFeeters, due to an accident at the Power Block fire on the night of December 23, 1897, I mention with regret.

Before closing I wish to thank you for your action and interest manifested in all matters pertaining to the good of the Department.

I also wish to thank the papers for the praise of the Department, and the Old Firemen and citizens for their timely help and encouragement at fires; also the officers and men for their zeal and earnestness manifested at all times, and the Police Department for their invaluable aid at fires, as it never has been more efficient.

Respectfully submitted,

J. W. DICKINSON,

Chief Cleveland Fire Department.

SERVICE IN 1897.

Company.	Fires attended	Fires worked on.	Hours worked.	Miles run.	Feet of hose used.	Veterinary calls.	Remarks.
Engine Co. No. 1...	140	39	55¼	190½	17,950	24	First Section.
“ “ 1...	44	10	33	36¼	4,750	.....	Second Section.
“ “ 2...	130	30	49½	132½	11,300	7	
Chemical A.....	200	46	30	212¾	9,200	.....
Engine Co. No. 3...	175	48	59¾	229¾	19,700	7	
“ “ 4...	115	31	46¾	155¼	12,400	6	
“ “ 5...	84	42	62¼	117¼	12,350	4	
“ “ 6...	106	41	58	159	12,500	18	
“ “ 7...	120	46	52½	222½	16,400	14	
“ “ 8...	76	23	30¾	17¾	6,650	7	
“ “ 9...	113	26	30¼	212¼	10,250	3	
“ “ 10...	67	30	33	125	8,800	4	
“ “ 11...	63	39	42½	121	12,650	7	
“ “ 12...	116	40	57¼	244½	16,600	11	
“ “ 13...	55	20	35	128	4,500	2	
“ “ 14...	171	43	59¼	218¼	13,250	3	
“ “ 15...	47	10	17½	46¼	4,850	.....
“ “ 16...	84	32	24	147½	8,050	7	
“ “ 17...	116	42	58¾	248	12,900	12	
“ “ 18...	121	48	46	275¼	12,000	25	
“ “ 19...	76	25	35	157	9,900	4	
“ “ 20...	79	27	23½	158¼	8,800	9	
“ “ 21...	44	9	18¾	46¾	3,000	.....	{ 20½ hours. (66 miles of ice breaking.)
“ “ 22...	48	29	32¾	103½	7,650	4	
“ “ 23...	44	24	47¼	107½	12,000	6	
“ “ 24...	35	17	21	99½	5,200	3	
“ “ 25...	97	34	44¼	228½	9,900	5	
Hook & Ladder Co. 1.	159	67	71½	213½	800	18	
Water Tower.....	50	2	18	63½	100	.....
Hook & Ladder Co. 2.	113	58	68½	176¼	650	11	
Chemical B.....	124	26	22¼	193	6,200	.....

DEPARTMENT OF FIRE SERVICE.
SERVICE IN 1897.—Concluded.

Company.	Fires attended	Fires worked on.	Hours worked	Miles run.	Feet of hose used.	Veterinary calls.	Remarks.
Hook & Ladder Co. 3.	145	66	70¼	351¼	900	12	
“ “ “ 4.	97	55	61¾	228¼	450	5	
“ “ “ 5.	82	34	31	137¾	... ..	5	
Chemical D.....	82	25	24	131¾	5,100	.....
Hook & Ladder Co. 6.	131	75	85¼	313½	400	9	
“ “ “ 7.	201	116	114	277¼	2,200	6	
“ “ “ 8.	78	47	33½	119¾	400	.....
“ “ “ 9.	109	80	62¼	240¼	750	7	
Hose Co. No. 1.....	91	35	50¾	122¾	9,400	1	
Total .....	.....	.....	1,817	6,902¼	310,850	266	

Report of Superintendent of Machinery.

CLEVELAND, OHIO, December 31st, 1897.

HON. G. L. HECHLER,

Director of Fire Service.

DEAR SIR:—I respectfully submit herewith my annual report of machinery and apparatus of the Fire Department for the year ending December 31st, 1897.

APPARATUS.

The apparatus of the Department is in excellent condition, attention having been paid to keep this arm of the service in the highest standard of efficiency, repairs having been made when necessary from time to time to insure the efficiency of the machinery.

The casualties were few. The most serious one was that which hook and ladder truck No. 4 met with on September 18th by being run into by the fast mail train of the Erie Railway Co., on the Ætna street crossing of that road, demolishing the truck and breaking all the ladders, severely injuring several members of the company at the time.

The truck has been rebuilt and is practically new, with very few exceptions. The ladders, having been rendered useless, were replaced by a new set.

The apparatus purchased newly were one fourth size double piston steam engine, placed in service at Fire Station No. 24, built by Thos. Manning. It was placed in service May 4th.

A new exercising wagon was purchased for Engine Co. No. 5. The old one was worn out; it was taken in part pay for the new wagon.

There was one light Concord wagon purchased for use of the telegraph department, to be used in looking after trouble on the line, or such other light work as is needed.

Five buggies (officers') received general repairs and painting, three of them receiving new wheels.

Hose wagon No. 8 received a general overhauling and painting, which put it in first class order.

RECOMMENDATIONS.

Would respectfully recommend that one new chief's buggy be purchased and one now in use be used as a reserve one. There is only one now for that purpose, which is not enough, as it sometimes requires the sending of two, and at times three, to shop for repairs. And in the event of purchasing a new buggy I would suggest that it be equipped with rubber tire and roller bearings. They will materially lessen the cost of repairs in the future.

Rebuilding of the old hook and ladder truck now used as an extra. In its present condition it is not adequate to fill the requirements of what a hook and ladder truck should be.

A light engine of the fourth size, to be used as an extra in the outlying districts, as those in reserve at present are too heavy to be used when off paved streets. It would be an impossibility for a team of horses to haul them in some of the roads in those districts on account of the great weight of engines.

Some of the engines and hose wagons in the Department will need painting when the winter is over, they being much in need of it to put them in a presentable appearance.

The machinery of the Department has worked well on the several calls made upon it during the year past, the severest test being the one at the Perkins Power Block on the night of December 23d. During the progress of that fire each of the fifteen steam fire engines and the two fire boats engaged did splendid service to the end without interruption. The value of the pipe system from the fire boat stations was fully demonstrated at that fire. The streams of water delivered on the fire were very large and of tremendous force.

The casualties to apparatus were slight. Hook and ladder No. 1 was slightly damaged by a falling wall. A running board on one side was broken; one extension ladder was broken also. Engine No. 8 had a slight disarrangement of the exhaust occur. Repairs were immediately made and it was reported for duty in a short space of time. Fire boat (John H. Farley) reported the breaking of crosshead bolts in one of the pump engines. This break was also immediately repaired, having extra bolts on hand for such emergency.

A new pair of steamer wheels were purchased to replace the ones burned at Station 16. They are to be used as extras for the Manning third size engines.

HEATERS.

There are 24 heaters attached to fire engines, 2 heaters used for heating water for house use only, 10 steam house heaters, all of which are in good order except the one at Station No. 3, which will require to be replaced by a new one.

EXTRA PARTS.

Provisions have been made to have extra parts of apparatus stored, ready for immediate use, such as wheels, poles, whiffletrees, eveners, grates, suction, and several smaller parts to be used when needed.

APPARATUS IN SERVICE.

The following is a list of the apparatus of all classes now in service and in first class condition: Consisting of 16 double piston engines, 2 single piston engines, 6 rotary engines, 2 fire boats with powerful vertical duplex pumps, 25 hose wagons, 9 hook and ladder trucks (three of which are of the aerial turntable style), 1 aerial ladder (Scott Uda), rope windlass hoist, 1 water tower, 10 buggies (officers'), 3 two-wheeled chemical engines, 2 linemen's wagons, 1 telegraph pole cart, 2 coal wagons with capacity for 3½ tons each, 2 general delivery wagons, 23 exercising wagons.

RESERVE APPARATUS.

The following apparatus is in reserve: Two steam fire engines in fair condition, 2 hose wagons in good condition, 1 four-wheeled hose carriage in fair order, 1 hook and ladder truck in bad condition, 1 chief's buggy, fair.

IN BAD ORDER.

One steam fire engine (formerly used at Station No. 11), 1 two-wheeled gig, 1 old fire wagon, 1 lot of old fire ladders which are not considered safe for future use. Would recommend that this lot of miscellaneous old stuff be condemned and sold, as it is of no further use for service.

DESCRIPTION OF STEAM FIRE ENGINES.

Engine Co. Using.	Manufacturer's Name.	Style of			Size in Inches.			When Placed in Service.	Size.
		Frame.	Boiler.	Engine.	Cylinder.	Stroke of Piston.	Pump.		
Engine Co. No. 1..	Thos. Manning.....	Crane Neck...	Water Tube.....	Double Piston....	8¼	8	4¾	1895	No. 2
" " 1..	Silsby Manufacturing Co.....	Straight.....	Drop Tube.....	Rotary.....	.....	.....	.....	1885	" 1 Extra.
" " 2..	Clapp & Jones Mfg. Co.....	Crane Neck...	Drop Tube.....	Double Piston....	9	8	5½	1885	" 1
" " 3..	Clapp & Jones Mfg. Co.....	"	Drop Tube.....	Double Piston....	8	8	5	1885	" 1
" " 4..	Thos. Manning	"	Water Tube.....	Double Piston....	8¼	8	5	1895	" 2
" " 5..	Amoskeag Manufacturing Co.....	"	Submerged Tube .	Double Piston....	6¾	8	4¼	1875	" 2
" " 6..	Silsby Manufacturing Co.....	"	Drop Tube.....	Rotary..	.....	.....	.....	1885	" 3
" " 7..	Silsby Manufacturing Co.....	"	Drop Tube.....	Rotary.....	.....	.....	.....	1884	" 2
" " 8..	Thos. Manning	"	Submerged Tube .	Double Piston....	6¾	8	4¼	1894	" 3
" " 9..	Manchester Locomotive Works...	"	Submerged Tube .	"	6¾	8	4¼	1879	" 2
" " 10..	Thos. Manning	"	Submerged Tube .	"	6¾	8	4	1894	" 3
" " 11..	La France Fire Engine Co.....	"	West Tube.....	"	7¼	8	4½	1892	" 3
" " 12..	Thos. Manning	"	Water Tube	"	7¾	8	4¼	1895	" 3
" " 13..	Thos. Manning	"	Submerged Tube .	"	6¾	8	4¼	1894	" 3
" " 14..	Silsby Manufacturing Co.....	"	Drop Tube.....	Rotary.....	.....	.....	.....	1885	" 2
" " 15..	Thos. Manning.....	Upright.....	Water Tube	Double Piston	16	12	9½	1894	Fire Boat C'v'd'r

DESCRIPTION OF STEAM FIRE ENGINES.—Concluded.

Engine Co. Using.	Manufacturer's Name.	Style of			Size in Inches.			When Placed in Service.	Size.
		Frame.	Boiler.	Engine.	Steam Cylinder.	Stroke of Piston.	Pump.		
Engine Co. No. 16..	Thos. Manning.....	Crane Neck...	Submerged Tube .	Double Piston....	6¾	8	4¼	1894	No. 3
" " 17..	Silsby Manufacturing Co.....	Crane Neck...	Drop Tube.....	Rotary.....	.....	.....	.....	1891	" 3
" " 18..	Thos. Manning	Crane Neck...	Water Tube.....	Double Piston	8	8	5	1894	" 2
" " 19..	Thos. Manning.....	Crane Neck...	Submerged Tube .	Double Piston....	6¾	8	4¼	1894	" 3
" " 20..	Ahrens Manufacturing Co.....	Straight	Coil	Single Piston....	9	8	5¼	1878	" 3
" " 21..	Thos. Manning	A	Scotch	Double Piston....	16	10	8	1894	F.B.J.H.Farley.
" " 22..	Ahrens Manufacturing Co	Straight	Coil	Single Piston.....	9	8	5	1877	No. 3
" " 23..	Silsby Manufacturing Co.....	Crane Neck...	Drop Tube.....	Rotary..	.....	.....	.....	1877	" 3
" " 24..	Thos. Manning.....	Crane Neck...	S'm'g'd Nest Tube	Double Piston....	6¾	7	4	1897	" 4
" " 25 :	Thos. Manning	Crane Neck...	Water Tube	Double Piston....	6¾	8	4	1895	" 3
Reserve C	Silsby Manufacturing Co.....	Straight.....	Drop Tube.....	Rotary.....	.....	.....	.....	1873	" 1
" D	Silsby Manufacturing Co.....	Straight	Drop Tube.....	Rotary .....	.....	.....	.....	1871	" 1
" E	Silsby Manufacturing Co....	Straight	Drop Tube.....	Rotary.....	.....	.....	.....	1877	" 2

Report of the Chief Operator of the Cleveland Fire Alarm Telegraph.

FIRE ALARM OFFICE, January 1st, 1898.

HON. G. L. HECHLER,

Director of Fire Service,

SIR:—I have the honor to submit to you my annual report for the year ending December 31st, 1897.

During the past year the Fire Alarm System has worked very well, considering there are 82 old Allen alarm boxes in circuit. Whenever there was delay in receiving a proper alarm it would be from an Allen box; they cannot be counted on with any degree of safety and should be replaced as soon as possible with new sector weight boxes.

During the past year 830 feet of cable was laid underground on Wood street, from St. Clair street to and in the City Hall. This cable took the place of overhead wires between said points, and said overhead wires and poles have been removed.

During the past year $10\frac{1}{4}$ miles of copper wire was strung in renewing and extending our circuits to take in additional boxes, of which there were 4 added to the system; and all poles having fire alarm boxes attached thereto were given a coat of red paint.

There are places in our circuits where the poles and wire are old and in bad shape, and should be replaced with new poles and wire. I shall submit, later on, a detailed statement of what is required in that line, with estimated cost thereof.

In the line of additions and improvements to the Fire Alarm System I respectfully refer to my communication dated Decem-

ber 31st, 1897, which gives details and estimated cost. There is one change in said paper which I respectfully recommend. In place of additional talking line I would build four alarm circuits, placing thereon the polarized relays that work the registers and gongs; by doing this each engine house would have two (2) circuits to receive alarms.

In conclusion I beg leave to extend my sincere thanks to the Honorable Director of Fire Service and to the Chief for kindness and assistance rendered.

See annexed table for detailed statements, etc.

Respectfully submitted,

JOSEPH ROTHGERY,

Chief Operator.

Respectfully forwarded to Chief J. W. Dickinson.

SUMMARY 1897.

Troubles on lines removed.....	213
Boxes examined.....	3,656
Boxes cleaned and repaired.....	101
Boxes added to system.....	4
Keys issued to citizenz.....	288
Miles of copper wire strung.....	10 $\frac{1}{4}$
Miles of old wire taken down.....	9 $\frac{1}{4}$
Number of poles set.....	12
Number of poles taken down.....	14
Feet of underground cable laid.....	850
Miles of copper wire in use.....	274 $\frac{3}{4}$
Miles of iron wire in use.....	26 $\frac{3}{4}$
Feet of lead covered cable underground.....	26,019
Feet of copper wire underground	416,853

ESTIMATED VALUE OF PROPERTY IN CHARGE OF THE TELEGRAPH DEPARTMENT.

Office furniture, switchboard and instruments.....	\$ 2,500
Instruments in engine houses.....	2,600
Alarm boxes.....	17,500
Lines and fixtures.....	13,600
Underground wires.....	3,800
Horses and wagons.....	500
Batteries and supplies.....	1,500
Telegraph poles.....	5,000
	<hr/>
Total.....	\$45,900

ALARM BOXES IN USE.

Gamewell spring.....	52
Gamewell, sector weight.....	90
U. S. sector weight.....	82
Interstate.....	40
Allen.....	82
Utica.....	2
Pearce and Jones.....	1
Richmond.....	1
	<hr/>
Total...	350

TABLE SHOWING NUMBER OF ALARMS FROM
EACH BOX.

Box.	Alarms.	Box.	Alarms.	Box.	Alarms.	Box.	Alarms.	Box.	Alarms.	Box.	Alarms.	Box.	Alarms.	Box.	Alarms.
3	3	51	4	121	1	165	2	228	2	326	1	381	2	442	4
4	2	52	3	122	1	166	5	229	1	327	1	383	3	451	1
5	2	53	4	123	2	167	4	231	1	329	2	386	3	461	5
9	4	58	1	124	1	168	2	233	3	331	2	387	5	465	1
10	1	61	3	125	2	171	4	234	3	332	1	388	2	494	3
11	1	62	1	126	4	172	3	235	2	336	3	391	1	495	1
12	2	64	1	127	8	173	3	236	2	337	1	392	1	513	1
13	2	65	2	128	1	175	3	237	7	341	2	393	2	519	2
14	2	67	2	129	1	176	1	241	4	342	6	394	4	524	3
15	2	68	2	131	3	177	1	242	4	343	4	412	7	525	2
16	2	69	1	132	2	178	2	245	2	345	1	413	2	541	1
19	4	71	2	134	2	181	1	246	3	346	3	414	4	542	2
21	6	72	2	135	3	183	8	247	1	347	1	415	2	545	1
23	4	73	8	136	4	185	1	248	2	348	1	416	1	554	1
24	3	74	4	137	3	186	1	251	2	351	2	417	2	562	2
25	3	76	1	138	1	188	1	255	11	352	1	418	2	563	1
26	2	78	1	141	1	189	3	256	3	353	1	419	2	971	2
27	3	79	14	142	2	192	2	258	1	354	3	421	1	925	3
28	6	81	1	143	1	193	6	159	4	355	5	423	7	926	3
29	3	82	2	144	3	194	1	263	2	356	1	424	2	931	1
32	7	83	2	145	2	195	1	264	1	357	3	425	3	932	2
34	12	84	5	146	3	197	1	265	2	358	1	426	3	933	1
35	2	85	7	147	4	198	1	266	2	361	7	427	5	934	2
36	2	86	4	149	3	199	2	267	1	362	2	428	4	935	1
37	3	87	2	152	1	212	4	313	1	365	3	429	1	936	3
38	6	89	1	153	2	213	2	314	2	366	1	431	2	971	4
39	1	91	4	154	4	214	1	315	3	367	1	432	3	.....	.....
41	1	92	1	155	1	215	2	316	2	371	3	433	3	.....	.....
42	1	94	6	157	5	216	4	317	1	372	2	435	4	.....	.....
46	5	95	1	161	3	217	5	319	4	374	5	436	5	.....	.....
47	4	96	1	162	5	218	5	323	7	375	1	437	1	.....	.....
48	2	97	2	163	2	221	3	324	1	376	3	438	1	.....	.....
49	1	98	1	164	2	226	2	325	5	377	6	439	1	.....	.....

BOX ALARMS.

1897.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Sunday	16	5	10	5	5	8	17	8	8	9	6	5	102
Monday	13	12	8	6	15	12	14	8	6	12	8	6	120
Tuesday.....	8	9	8	17	9	7	9	11	4	11	8	8	109
Wednesday.....	16	8	11	9	9	6	8	12	8	10	6	5	126
Thursday.....	9	8	7	18	8	10	5	6	15	8	7	14	115
Friday	14	14	12	10	4	7	15	7	8	10	9	13	123
Saturday	12	7	13	12	12	7	12	9	6	11	7	8	116
Total.....	88	63	69	77	62	57	80	61	55	71	51	59	733

STILL ALARMS.

Sunday	7	4	2	0	3	8	3	6	3	9	5	4	54
Monday.....	3	2	8	5	0	3	2	2	4	8	3	1	41
Tuesday.....	3	2	2	0	3	2	4	3	1	6	6	2	34
Wednesday.....	5	2	6	3	1	2	3	0	5	2	5	4	38
Thursday.....	4	2	3	11	1	2	3	2	4	4	2	5	43
Friday	4	2	5	8	1	4	4	2	1	6	4	6	47
Saturday	4	2	1	7	5	8	5	5	0	6	4	3	50
Total.....	30	16	27	34	14	29	24	20	18	41	29	25	307

Grand total, 1,100.

ALARMS.

1897.	Box Alarms.			Still Alarms.			Grand Total.	Working Fires.	Calls for Assistance.	False Alarms.
	A. M.	P. M.	Total	A. M.	P. M.	Total				
January	43	45	88	6	24	30	118	60	2	3
February	22	41	63	7	9	16	79	37	2	.....
March	35	34	69	12	15	27	96	35	2	4
April	34	43	77	17	17	34	111	54	5	1
May.....	22	40	62	6	8	14	76	27	.....	1
June	19	38	57	9	20	29	86	31	2	2
July.....	25	55	80	11	13	24	104	38	2	.....
August	33	28	61	11	9	20	81	38	2	1
September	21	34	55	8	10	18	73	35	1	.....
October.....	27	44	71	15	26	41	112	49	1	.....
November.....	18	33	51	11	18	29	80	32	.....	1
December.....	30	29	59	14	11	25	84	31	2	1
Total	329	464	793	127	180	307	1,100	462	21	14

Alarms turned in by

Citizens' keys.....	381
Box keys	37
Firemen's keys	13
Policemen's keys	60
Police stations.....	5
Engine houses.....	58
Auxiliary system.....	11
Telephone	208

Respectfully forwarded to the Director, G. L. Hechler.

J. W. DICKINSON,
Chief.

Report of the Medical Officer.

OFFICE OF THE MEDICAL OFFICER, }
January 1st, 1898. }

HON. G. L. HECHLER,

Director of Fire Service.

DEAR SIR :—I have the honor to submit to you a report of the medical services for the year ending December 31st, 1897, and with it desire to make the following recommendations:

Much sickness results from exposure, and many times from unnecessary exposure. I am told by firemen that in responding to night alarms sufficient time is not given them to dress; that they frequently ride to fires their only clothing that of a shirt and trousers. This is inhuman and should be rectified at once. They should be well clothed at night to meet the severe and extreme exposure to which no other body of public servants are subjected, and to this their Captains should give attention.

Each fire station should be provided with a supply of modern medical and surgical dressings and facilities for properly caring for injuries. I am frequently called to dress wounds that should receive particular attention—where cleanliness should be observed in every detail—and there find only a horse bucket in which to wash a wound.

Appended you will find tables showing medical services.

In conclusion I desire to return my sincere thanks for the very kind treatment which has been accorded me.

Respectfully forwarded through the Chief, James W. Dickinson.

D. L. TRAVIS,
Medical Officer, C. F. D.

Approved and forwarded to Director G. L. Hechler.

J. W. DICKINSON,
Chief, C. F. D.

TABLE SHOWING DISEASES, INJURIES AND MEDICAL SERVICE
DURING THE YEAR 1897.

Diseases.				Injuries.				Aggregate.				Medical Services.	
No. of Cases	Time Lost.			No. of Cases	Time Lost.			No. of Cases	Time Lost.			No. of Visits	No. of Consultations.
	Days.	Hours.	Min.		Days.	Hours.	Min.		Days.	Hours.	Min.		
97	908	7	32	35	759	5	40	132	1,667	13	12	582	240

Number of candidates examined, 275. Number of candidates rejected, 124. Number of candidates re-examined, 24.
Died from injury, 1.
Died from disease, 2.

TABLE OF DISEASES AND INJURIES IN THE ORDER
OF THEIR FREQUENCY DURING THE YEAR 1897.

DISEASES.

Fever.....	10	Pneumonia.....	2
Influenza.....	9	Obstruction of Bowels.....	2
Acute Bronchitis.....	7	Iritis.....	2
Quincy.....	6	Eczema.....	1
Lumbago.....	5	Acute Gastritis.....	1
Remittent Fever.....	4	Bronchial Pneumonia.....	1
La Grippe.....	4	Laryngo Pharyngitis.....	1
Acute Indigestion.....	3	Erysipelas.....	1
Intercostat Neuralgia.....	3	Chronic Bronchitis.....	1
Gout.....	3	Migrane.....	1
Paralysis.....	2	Congestion of Bowels.....	1
Hemorrhoids.....	2	Fistula.....	1
Pharyngitis.....	2	Colic.....	1
Laryngitis.....	2	Diarrhoea.....	1
Abscess.....	2	Intestinal Indigestion.....	1
Exhaustion.....	2	Intestinal Catarrh.....	1
Rheumatism.....	2	Inguinal Hernia.....	1
Intermittent Fever.....	2	Tape Worm.....	1
Supra Orbitat Neuralgia.....	2	Alveolar.....	1
Ulcer.....	2	Continued Fever.....	1

INJURIES.

Contusions....	16	Traumatic Orchitis.....	1
Fractures.....	6	Punctured Wound.....	1
Lacerations.....	5	Lacerated Ligament in Ankle.....	1
Lacerated Wounds.....	4	Lacerated Ligament in Wrist.....	1

Report of the Storekeeper.

CLEVELAND, January 1, 1898.

JAMES W. DICKINSON, *Chief*:

SIR:—I respectfully submit the following report of Hose for the year 1897:

Amount of hose in the Department Jan. 1, 1898, 40,300 feet.

HOSE PURCHASED DURING 1897.

Of the Mechanical Rubber Co., National Knit 2½-in.	1,000 feet.
Manhattan Rubber Co., (Manhattan) 2½-in....	1,000 feet.
Revere Rubber Co., Mastiff 2½-in.....	1,000 feet.
Akron Rubber Co., Goodrich 2½-in.....	1,000 feet.
Eureka Fire Hose Co., Paragon 2½-in.....	1,000 feet.
Fabrick Fire Hose Co., Unique 2½-in	1,000 feet.

Total hose purchased..... 6,000 feet.

Amount of hose burst..... 4,550 feet.

Amount of hose repaired..... 1,900 feet.

Amount of hose condemned..... 3,750 feet.

Total amount of hose in Department Dec. 31, 1897. 42,550 feet.

Yours respectfully,

P. H. AUXER,

Storekeeper.

Respectfully forwarded to Director G. L. Hechler.

J. W. DICKINSON,

Chief.

Report of the Inspector of Boilers.

JANUARY 1, 1898.

HON. G. L. HECHLER,

Director of Fire Service.

DEAR SIR:—I herewith respectfully submit my Annual Report for the year beginning January 1, 1897, and ending December 31, 1897:

Number of boilers inspected.....	222
Number of certificates issued.....	222
Number of repairs ordered.....	45
Number of certificates issued to city boilers, no fee.....	59
Paid to A. J. Spencer, during the year.....	\$695
Certificates issued and unpaid.....	24

No accidents to steam boilers under the jurisdiction of this Department have occurred during the time I have been in office.

In conclusion I desire to return to you my sincere thanks for the kindness and many courtesies received at your hands.

Very respectfully,

THOMAS CALDWELL,

Boiler Inspector.

Report of the Examiner of Engineers.

JANUARY 1, 1898.

HON. G. L. HECHLER,
Director of Fire Service:

SIR:—I herewith most respectfully submit my Third Annual Report for year ending December 31, 1897:

1897.	Licenses Granted.		Applicants Rejected.	Licenses Reissued.	
	Engineers.	F. & W. T.		Engineers.	F. & W. T.
January	23	27	14	119	86
February	17	20	7	112	39
March.....	21	9	13	112	9
April	21	10	15	108	21
May.....	17	18	14	124	37
June.....	7	11	6	82	20
July	15	8	2	61	25
August	13	7	7	77	11
September	11	7	3	55	23
October.....	24	9	5	128	46
November	16	17	7	115	41
December.....	14	9	5	116	22
Total	199	152	98	1,209	380

Total engineers in good standing.....	1,408
Firemen and water tenders in good standing.....	532
Failed to reissue licenses.....	571
Total	2,511
Applicants examined.....	449
Applicants rejected.....	98

Died, 4. Revoked, 2.

In conclusion I wish to express my thanks for your friendly treatment.

Yours very respectfully,
F. G. KAUFHOLZ,
Examiner of Engineers.

Report of Veterinary.

HON. G. L. HECHLER,

Director of Fire Service:

DEAR SIR:—I have the honor to submit herewith my report for the year ending December 31, 1897.

The total number of cases treated in the Veterinary Hospital during the year of 1897 was 107; the total number of visits made by the Veterinarian, 796.

Only one horse has been lost, No. 168, on November 25, from heart failure; said horse dropping on the road while in response to an alarm from Box 342.

I consider the mortality phenomenally low.

After repeated trials of various rubber shoes I do not consider them practical for winter use in the City of Cleveland. If rubber shoes can be furnished at a reasonable expense I would recommend them for summer wear, as I think they would do away with a great deal of slipping and falling on slippery pavements.

The horses of the Department, as a rule, are in good shape to perform the services required of them.

We have a few that are old, having been in the service a good many years, and I would recommend their disposal during the coming year.

In closing, permit me to thank you and the other officers and members of the Fire Department for kind and courteous treatment.

Yours respectfully,

N. H. DOWNS, M.D.C.

Department Veterinary.

THE FOLLOWING LIST GIVES THE DISEASES AND
THE NUMBER OF HORSES AFFECTED.

Under treatment for—	Cases.	Under treatment for—	Cases.
Lameness	82	Impaction of the bowels.....	2
Colic	11	Pneumonia.....	4
Indigestion.....	6	Influenza.....	6
Erythema.....	5	Strangles.....	12
Tumors.....	3	Purpura Henoragica.....	1
Injuries	21	Rheumatism.....	1
Laryngitis	7	Acute Optholina.....	1
Lymphengitis.....	1	Azoturea.....	2

Horse No. 168 died from heart failure—dropped while in harness.

The present condition of the horses will be seen by the following table:

Company.	Horse No.	Condition.	Company.	Horse No.	Condition.
Engine House No. 1	318	Good.	Engine House No. 8	266	Good.
	412	Good.		346	Good.
	381	Good.		288	Good.
	163	Good.		305	Fair.
	372	Good.		276	Fair.
	336	Good.	Engine House No. 9	352	Good.
Engine House No. 2	370	Good.		353	Good.
	416	Good.		363	Good.
	404	Good.	Engine House No. 10	364	Good.
	119	Fair, old.		365	Good.
	373	Good.		368	Fair.
Engine House No. 3	391	Good.		389	Good.
	392	Good.	Engine House No. 11	297	Good.
	242	Good.		307	Bad.
Engine House No. 4	300	Good.		212	Good.
	317	Good.	Engine House No. 12	298	Good.
	226	Good.		312	Good.
Engine House No. 5	414	Good.		313	Good.
	418	Good.	Engine House No. 13	308	Good.
	304	Good.		299	Good.
Engine House No. 6	404	Good.		413	Good.
	303	Good.	Engine House No. 14	417	Good.
	239	Good.		188	Fair.
	254	Good.		347	Good.
	125	Fair, old.		235	Good.
	396	Good.		386	Good.
Engine House No. 7	360	Good.		399	Good.
	293	Good.		261	Good.
	376	Good.		415	Good.

Company.	Horse No.	Condition.	Company.	Horse No.	Condition.
Engine House No. 16	357	Good.	Engine House No. 24	107	Bad.
	196	Fair.		330	Good.
	274	Good.		227	Bad.
	369	Good.		322	Fair.
Engine House No. 17	147	Fair, Old.	Engine House No. 25	342	Good.
	223	Fair.		349	Good.
	348	Good.		265	Good.
Engine House No. 18	354	Good.		228	Fair.
	378	Good.	H. & L. Co. No. 1....	186	Good, old.
	379	Good.		197	Good, old.
	326	Fair.		382	Fair.
	393	Bad.		292	Good.
	321	Good.		363	Good.
	237	Bad.		217	Bad.
Engine House No. 19	294	Good.		403	Good.
	275	Good.	H. & L. Co. No. 2....	327	Fair.
	241	Fair.		339	Fair.
	323	Bad.		187	Fair, old.
Engine House No. 20	291	Fair.		244	Fair.
	398	Good.		356	Good.
	270	Good.		243	Good.
	405	Good.		324	Good.
	387	Good.		337	Good.
Engine House No. 22	290	Good.		351	Good.
	410	Good.	H. & L. Co. No. 3....	419	Good.
	82	Fair, old.		222	Good.
	340	Fair.		371	Good.
	250	Bad.	H. & L. Co. No. 4....	355	Good.
Engine House No. 23	331	Good.		238	Fair.
	397	Good.		377	Fair.
	401	Good.		408	Fair.
	402	Good.	H. & L. Co. No. 5....	345	Good.

DEPARTMENT OF FIRE SERVICE.

Company.	Horse No.	Condition.	Company.	Horse No.	Condition.
H. & L. Co. No. 5....	361	Good.	H. & L. Co. No. 9....	411	Good.
	230	Good.		296	Good.
H. & L. Co. No. 6....	253	Good.	Hose Co. No. 1.....	259	Good.
	375	Good.		260	Good.
	400	Good.	At Veterinary Hosp.,	140	Fair, old.
	390	Fair.		333	Bad.
	148	Bad, old.		251	Fair.
H. & L. Co. No. 7....	240	Good.		286	Fair.
	333	Good.		258	Good.
	384	Good.		366	Bad.
H. & L. Co. No. 8....	263	Good.		407	Bad.
	264	Good.		278	Fair.
H. & L. Co. No. 9....	394	Good.			

Report of the Inspector of Buildings.

DEPARTMENT OF FIRE,
OFFICE OF INSPECTOR OF BUILDINGS. }
January 1, 1898.

HON. G. L. HECHLER,

Director of Fire Service:

DEAR SIR:—I have the honor to herewith submit the Tenth Annual Report of the business transacted by this Department for the year ending December 31, 1897.

The estimated cost of new structures built during the past year is \$3,031,928, and for additions, alterations and repairs, \$375,875, or a total of \$3,407,803, which is \$262,202 more than for the year of 1896.

The fees charged for permits in 1897 amounted to \$5,854.30, and the expenditures for salaries, stationery, printing, etc., \$6,322.50. The fees charged for permits in 1896 amounted to \$5,459.80, and the expenditures for salaries, stationery, printing, etc., \$6,420.37. No fees were charged for the public buildings built by the city, but the cost of the same is included in the total for new structures.

Four hundred and forty-eight (448) permits have been issued for steam and hot air heaters, all of which have been inspected.

Forty-five permits have been issued to move buildings.

Notices have been served on owners of ten buildings to place fire escapes on same. The plans and specifications for fire escapes are the same as last year.

Numerous examinations of buildings reported unsafe and walls of those destroyed by fire have been made, and when found to be unsafe the owners or agents have been notified to have them made safe or taken down.

The force employed in this Department consist of the Inspector of Buildings, Assistant Inspector, and two Deputy Inspectors.

The Assistant Inspector and one Deputy are employed all the time inspecting buildings in the course of construction; all heating apparatus, unsafe buildings, defective chimneys, and locating and ordering on fire escapes.

The territory to be covered by the number employed in this office is manifestly too large—thirty-two square miles.

I would respectfully suggest that at least two additional inspectors be provided for, and would add that from the present outlook in the building trades the fees will be large enough to warrant the payment of the salaries therefrom, and keep this office self-sustaining or nearly so, as it has been in the past.

In closing permit me to thank the officers and members of the Police and Fire Departments for their help; and the Assistant Inspectors for the faithful discharge of their duties.

Yours very respectfully,

JOHN E. THOMAS,

Inspector of Buildings.

THE ACCOMPANYING TABLES GIVE IN DETAIL THE
BUSINESS DONE DURING THE YEAR 1897.

The following is a condensed summary thereof:

Number of brick and stone structures	142
Number of wood and frame structures	1,693
Number of additions, alterations, etc	1,176
Number of buildings moved.....	45
Number of heating apparatus.....	448
Number of fire escapes ordered.....	10
Total amount of fees charged.....	\$5,854 30

STATEMENT

Showing the whole number and estimated value of all buildings in the city January 1, 1897 ; with the number and estimated cost of structures during the year 1897.

1897.	Dwellings.		Barns.		Stores.		Shops and Mills.		Apartment Houses.		Miscellaneous.		Totals.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	N .	Value.
New structures	1,242	\$1,528,545	212	\$63,484	97	\$359,002	56	\$290,990	19	\$135,400	209	\$654,507	1,835	\$3,031,928
Additions to old structures..	816	158,833	52	7,395	163	76,747	60	66,065	5	14,990	80	51,845	1,176	875,975
Totals	2,058	\$1,687,378	264	\$70,879	260	\$435,749	116	\$357,055	24	\$150,390	289	\$706,352	3,011	\$3,407,803

STATEMENT

Showing the number of permits issued, cost of structures, etc., for each year from the organization of the office of Inspector.

Year.	Number of Pemits Issued.			Total Estimated Cost.	Fees.
	New Structures.		Additions, etc.		
	Brick.	Frame.			
*1888.....	76	1,101	441	\$ 3,031,988 00	\$ 4,884 59
1889.....	115	2,486	1,302	4,401,854 00	9,664 75
1890	117	2,729	1,444	5,107,107 00	9,436 90
1891.....	144	2,757	1,561	5,600,983 00	8,415 63
1892.....	116	2,720	1,644	5,236,549 00	8,119 55
1893.....	101	1,940	1,347	3,706,087 00	5,816 80
1894.....	115	1,472	1,035	4,171,690 00	5,565 51
1895.....	131	1,768	1,152	4,146,242 00	5,251 62
1896.....	121	1,578	1,200	3,145,601 00	4,957 80
1897.....	142	1,693	1,176	3,407,803 00	5,316 30
Total Jan. 1, 1898..	1,178	20,244	12,302	\$41,955,904 00	\$67,429 45

* For seven months from June 1, 1888, the date of organization of office.

RECAPITULATION BY WARDS OF PERMITS FOR BUILDING FOR 1897.

Ward.	New Buildings. Brick and Stone.		New Buildings. Frame and Wood.		Additions, Altera- tions and Repairs.		Total Permits for Building and Fees.	
	No.	Estimated Cost.	No.	Estimated Cost.	No.	Estimated Cost.	No.	Fees.
1.....	10	\$ 23,475 00	6	\$ 103,425 00	17	\$ 7,800 00	33	\$ 253 35
2.....	4	88,000 00	.....	.....	24	12,575 00	28	172 10
3.....	11	135,580 00	3	1,200 00	23	13,542 00	37	245 40
4.....	17	454,740 00	4	210 00	12	5,785 00	33	497 75
5.....	6	24,900 00	8	11,450 00	11	3,370 00	25	71 25
6.....	5	30,300 00	12	14,370 00	15	4,250 00	32	106 50
7.....	2	4,700 00	23	15,450 00	30	37,785 00	55	81 05
8....	1	1,500 00	8	4,835 00	15	2,960 00	24	21 95
9.....	7	32,300 00	39	33,545 00	39	18,610 00	85	187 70
10.....	6	20,650 00	2	1,650 00	6	7,500 00	14	44 45
11.....	2	2,400 00	1	100 00	12	2,480 00	15	9 25
12.....	1	15,000 00	8	5,910 00	11	14,680 00	20	32 60
13.....	2	19,500 00	13	9,690 00	15	2,565 00	30	47 70
14.....	1	3,900 00	2	1,210 00	8	11,975 00	11	20 20
15.....	1	5,000 00	7	1,625 00	17	6,755 00	25	28 50
16.....	5	9,940 00	8	2,580 00	35	5,795 00	48	29 50
17.....	.....	.....	28	12,985 00	19	2,180 00	47	31 55
18.....	2	27,000 00	118	155,620 00	52	8,660 00	172	264 20
19.....	6	44,400 00	269	342,765 00	64	21,225 00	339	572 15
20.....	8	33,800 00	82	114,390 00	32	5,535 00	122	240 60
21.....	8	122,010 00	159	196,780 00	58	19,125 00	225	418 40
22.....	2	1,550 00	43	41,420 00	40	8,840 00	85	100 75
23.....	3	25,100 00	75	53,587 00	42	13,345 00	120	201 15
24.....	4	7,950 00	38	18,165 00	43	7,965 00	85	75 95
25.....	5	6,875 00	92	46,268 00	67	11,845 00	164	165 30
26.....	3	2,300 00	27	14,535 00	14	2,925 00	44	43 55
27.....	1	42,000 00	79	49,458 00	44	8,518 00	124	132 80
28.....	1	66,500 00	6	2,180 00	5	4,250 00	12	19 05
29.....	1	2,300 00	3	140 00	7	1,985 00	11	9 45
30.....	.....	.....	16	18,460 00	15	2,475 00	31	52 05

RECAPITULATION BY WARDS OF PERMITS FOR BUILDING FOR 1897.—Concluded.

Ward.	New Buildings. Brick and Stone.		New Buildings. Frame and Wood.		Additions, Altera- tions and Repairs.		Total Permits for Building and Fees.	
	No.	Estimated Cost.	No.	Estimated Cost.	No.	Estimated Cost.	No.	Fees.
31.....			8	3,095 00	18	2,650 00	26	15 55
32.....	3	11,400 00	20	10,675 00	17	1,735 00	40	48 00
33.....	3	37,000 00	10	4,825 00	22	11,745 00	35	62 40
34.....			10	4,045 00	15	10,890 00	25	19 10
35.....			6	3,355 00	12	9,255 00	18	21 70
36.....	1	2,000 00	15	6,930 00	31	4,875 00	47	32 50
37.....			29	19,215 00	38	5,915 00	67	70 10
38.....	1	20,000 00	25	20,460 00	36	7,465 00	62	59 95
39.....	1	4,500 00	42	26,490 00	51	9,740 00	94	101 60
40.....	1	4,500 00	116	69,685 00	65	12,530 00	182	232 55
41... ..	5	23,500 00	141	163,455 00	42	13,280 00	188	320 40
42.....	2	6,600 00	92	62,525 00	37	8,495 00	131	166 25
Totals .	142	\$1,363,170 00	1,693	\$1,668,758 00	1,176	\$375,875 00	3,011	\$5,316 30

SUMMARY BY MONTHS.
TOTAL PERMITS FOR THE YEAR 1897 BY MONTHS.

MONTHS.	Heating.	Moving.	New Buildings.			Repairs, Alterations, Additions.		Total Buildings.		Total Permits and Fees.	
			Brick and Stone.		Frame and Wood.	Brick, Stone, Frame, Wood.		All Kinds.		All Purposes.	
			No.	Estimated Cost.	No.	Estimated Cost.	No.	Estimated Cost.	No.	Fees.	
January.....	39	4	6	\$ 43,110	52	\$ 47,145	37	\$ 9,420	95	\$ 99,675	138 \$ 211 50
February.....	24	4	6	18,750	94	83,535	82	44,062	182	146,347	210 298 85
March.....	19	3	9	31,010	137	111,833	146	27,295	292	170,138	314 350 45
April.....	20	6	18	107,190	176	184,343	149	29,045	343	320,578	369 657 40
May.....	39	1	11	113,800	165	130,507	132	39,735	308	284,042	348 544 40
June.....	44	6	18	226,350	193	266,657	109	42,880	320	535,887	370 823 10
July.....	26	1	12	358,250	141	123,885	94	24,690	247	506,825	274 494 90
August.....	54	5	15	86,620	189	174,050	105	43,465	309	304,135	363 514 90
September.....	37	2	17	167,915	143	121,063	97	35,425	257	324,403	298 561 55
October.....	41	4	12	97,375	163	176,735	100	48,380	275	322,490	320 601 50
November.....	37	7	11	50,100	124	122,715	69	19,058	204	191,873	248 377 40
December.....	68	2	7	62,700	116	128,290	56	12,420	179	201,410	249 420 35
Total.....	448	45	142	\$1,363,170	1,693	\$1,698,753	1,176	\$375,875	3,011	\$3,407,803	3,504 \$5,854 30

Report of the City Electrician.

JANUARY 1, 1898.

HON. G. L. HECHLER,

Director of Fire Service:

DEAR SIR:—The following report for the year ending December 31, 1897, is very respectfully submitted.

Number of permits issued	650
Number of inspections made.....	1,128
Number of poles removed	101
Feet of aerial wire removed.....	1,087,780
Feet of sub-way built	42,988
Feet of ducts placed underground.....	324,723
Feet of cable placed underground	117,759
Feet of conductors placed underground	16,250,637

Or $3,077\frac{77}{100}$ miles. The total amount of wire underground within the city is $12,314\frac{41}{100}$ miles.

Number of tests made on railway conductors to determine if conditions exist which may cause electrolysis, 943.

The frequent measurements of electrical energy furnished to street lamps has at all times shown it above that called for in the specifications. The average for the year being $9\frac{57}{100}\%$. Many improvements have been made in the details of wiring on the streets and in buildings for the better protection of life and property. The total known fire loss within the past year caused by defective wiring was less than five dollars, and there has been no serious accidents to persons.

Notwithstanding the above record, careful inspections often bring to notice conditions which would cause serious results if not remedied. New construction work needs careful inspection, and the older installation require considerable attention also, as

they deteriorate, to a dangerous extent, if not properly cared for. The rapid adoption of the use of electrical devices and appliances constantly increase the work of this Department although improved methods suggested by experience facilitates the work to some extent. The question of the electrolytic action of currents of electricity on pipes in the streets has repeatedly been called to the notice of the writer; while the railway companies have expended many thousands of dollars in the prosecution of work which will tend greatly to prevent their currents from having an injurious effect on the pipes and the armor of underground cables there probably are existing conditions which will require still more work to be done to properly protect the property of the city from the deteriorating effects of electrolysis. I most earnestly recommend that the necessary appliance be purchased to enable the writer to make a complete survey which is the only means of arriving at correct conclusions and deciding on the most efficient methods of preventing what may be results greatly to be regretted. The aerial wires in the underground district have nearly all been removed, and I respectfully recommend that the Ordinance be enforced regarding the few remaining. In conclusion I desire to express my thanks for the courteous and kindly treatment received from you and to the Chief and the Assistant Chiefs for their aid and encouragement in the discharge of the duties which have devolved on the writer.

Very respectfully,

GEO. M. HOAG,

City Electrician.

Report of Fire Wardens.

HON. GEORGE L. HECHLER,

Director of Fire Service.

DEAR SIR ;—The following is our report for the year ending December 31st, 1897 :

FIRES INVESTIGATED.

Cause, Incendiary.....	113
“ Unknown.....	45
“ Carelessness with matches.....	22
“ Defective chimney.....	62
“ Spontaneous combustion.....	14
“ Defective hot air pipe	5
“ Mysterious.....	6
“ Stove pipe not properly protected.....	2
“ Defective coal oil stove.....	3
“ Hot ashes.....	6
“ Carelessness with lamp.....	2
“ “ “ benzine and rags.....	1
“ “ “ gasoline.....	5
“ No thimble in chimney hole.....	1
“ Frame smoke house.....	2
“ Woodwork too near stove.....	2
“ Wooden boxes too near stove.....	1
“ Explosion of lamp.....	1
“ No zinc underneath stove.....	1
“ Steam pipe burst.....	1
“ Range too close to floor.	5
“ Carelessness with candle.....	1
“ “ “ lantern.....	1

FIRES INVESTIGATED.—Concluded.

Cause, Dry goods too close to furnace.....	1
“ Leaky gas meter.....	1
“ Stack too close to wood.....	3
“ Leaf tobacco too close to stove	1
“ Defective grate	10
“ “ fire place.....	1
“ “ gasoline stove.....	1
“ Children playing with matches.....	1
“ Sawdust in wood cuspidor.....	1
“ Electric light wire.....	2
“ Rats (or mice) with matches.....	1
“ Kinetoscope machine.....	1
“ Sparks.....	1
“ Smoke pipe from furnace too close to wood	1
“ Carelessness with hot coal.....	1
“ False alarms	3
“ Carelessness with furnace.....	1
“ Thawing pipes.....	1
“ Overheated stove pipe.....	1
“ Carelessness with waste paper.....	2
“ Woodwork too near furnace.....	1
“ Shavings in hot air pipe.....	1
“ Drapery too near gas light.....	1
“ Oakum too close to stove pipe.....	1
“ Child pulled lamp off table.....	1
“ Cotton batting in show windows	1
<hr/>	
Total number of fires investigated.....	343
<hr/>	
Buildings inspected.....	706
Fire escapes recommended	30
Complaints investigated.....	239
Defective chimneys ordered made safe.....	33
Ordered fire proof ash vaults.....	21

DEPARTMENT OF LAW.

Department of Law.

Corporation Counsel,

MINER G. NORTON.

SIMPSON S. FORD,	First Assistant.
WILLIAM H. BOYD,	Second Assistant.
SAMUEL H. CROWL,	Third Assistant.
CHARLES G. EMERY,	Stenographer.
JACOB M. CRAWFORD,	Typewriter.
OSCAR J. HORN,	Clerk.

Report of the Corporation Counsel.

CLEVELAND, O., January 1, 1898.

To the Council:

I herewith submit a report of the business of the Department of Law for the year ending December 31, 1897.

The accompanying schedules contain a statement of the litigation in which the city is interested, showing the number of actions brought, the number disposed of, and the number now pending in the various courts of record, together with a comparative statement of the amount claimed and amount paid in the various cases. It also contains a statement of the kind and number of papers drawn by, referred to, and reported on during the year.

Respectfully,

MINER G. NORTON,

Corporation Counsel.

CASES BROUGHT BY OR AGAINST THE CITY OR ITS VARIOUS
OFFICERS DURING THE YEAR ENDING
DECEMBER 31, 1897.

UNITED STATES CIRCUIT COURT OF APPEALS.

- 544 City of Cleveland vs. the Hawgood & Avery Transit Co. Libel for collision with Upper Seneca Street Bridge. Appealed from United States District Court.
- 560 City of Cleveland vs. William Chisholm, et al. Libel for collision with Upper Central Way Bridge. Appealed from United States District Court.

CIRCUIT COURT OF THE UNITED STATES.

- 5156 The Cleveland, Canton & Southern Railroad Co. vs. The Knickerbocker Trust Company. Injunction, money and foreclosure. Action begun for injunction April 7, 1897.
- 5714 The Mercantile National Bank of Cleveland vs. R. S. Hubbard, Treasurer. Action begun December 23, 1897, to enjoin defendant from collecting taxes.
- 5715 The First National Bank of Cleveland vs. R. S. Hubbard, Treasurer. Action begun December 23, 1897, to enjoin defendant from collecting taxes.
- 5716 The Commercial National Bank of Cleveland vs. R. S. Hubbard, Treasurer. Action begun December 23, 1897, to enjoin defendant from collecting taxes.
- 5717 The Cleveland National Bank of Cleveland vs. R. S. Hubbard, Treasurer. Action begun December 23, 1897, to enjoin defendant from collecting taxes.
- 5718 The National City Bank of Cleveland vs. R. S. Hubbard, Treasurer. Action begun December 23, 1897, to enjoin defendant from collecting taxes.
- 5719 The National Bank of Commerce of Cleveland vs. R. S. Hubbard, Treasurer. Action begun December 23, 1897, to enjoin defendant from collecting taxes.
- 5720 The Union National Bank of Cleveland vs. R. S. Hubbard, Treasurer. Action begun December 23, 1897, to enjoin defendant from collecting taxes.

- 5721 The Euclid Avenue National Bank vs. R. S. Hubbard, Treasurer. Action begun December 23, 1897, to enjoin defendant from collecting taxes.
- 5722 The Central National Bank vs. R. S. Hubbard, Treasurer. Action begun December 23, 1897, to enjoin defendant from collecting taxes.
- 5723 The State National Bank vs. R. S. Hubbard, Treasurer. Action begun December 23, 1897, to enjoin defendant from collecting taxes.
- 5726 Western Reserve National Bank of Cleveland vs. R. S. Hubbard, Treasurer. Action begun December 30, 1897, to enjoin defendant from collecting taxes.

SUPREME COURT OF OHIO.

- 5510 Sprankle vs. City. Injunction and equitable relief. To restrain City from entering into contract for dredging the Cuyahoga River. Decision of Circuit Court affirmed, court holding that the Rooney contract does not cover work to be done under proposed contract.
- 5525 City vs. Catharine Moran. Action begun in Common Pleas Court September 6, 1893, to recover \$10,000, for loss of life. September 20, 1895, verdict for plaintiff for \$2,750. March 28, 1896, decision of lower court reversed by Circuit Court. April 13, 1896, verdict for plaintiff for \$1,750. December 24, 1896, decision of lower court affirmed by Circuit Court. April 12, 1897, petition in error filed in Supreme Court.
- 5526 City vs. Baldt. Action begun August 5, 1893, for recovery of money only. May 13, 1896, verdict for plaintiff for \$5,925. December 24, 1896, verdict affirmed by Circuit Court. April 12, 1897, petition in error filed in Supreme Court.
- 5527 City vs. Cleveland Electric Railway Co. Action begun in Common Pleas Court June 16, 1894, for recovery of money only for the paving of Broadway devil strip. June 21, 1895, judgment for plaintiff for \$17,562.42, with interest from April 2, 1895. February 27, 1897, decision of Common Pleas Court reversed by Circuit Court.
- 5550 City vs. Patrick Gorman. Action begun in Common Pleas Court, March 13, 1895, for money only. June 18, 1896, verdict for plaintiff for \$3,000. January 16, 1897, verdict in Common Pleas Court affirmed by Circuit Court. May 1, 1897, petition in error filed in Supreme Court.
- 5551 City vs. Barkwill et al. Action begun in Common Pleas Court January 3, 1890, to recover \$2,759 on attested claim against contractor for building of Infirmary Hospital. September term, 1895, ver-

dict for plaintiff. Appealed to Circuit Court; judgment of lower Court affirmed. May 1, 1897, petition in error filed in Supreme Court.

- 5706 Whitbeck, Treasurer, vs. Crocker. Action begun in Common Pleas Court to recover taxes paid to City. Judgment for plaintiff. Appealed to Circuit Court. Judgment of lower court affirmed. September 19, 1897, petition in error filed in Supreme Court.

CIRCUIT COURT OF CUYAHOGA COUNTY.

- 1933 State ex rel C. H. Black vs. D. E. Wright. Action begun February 6, 1897, to compel defendant to issue to plaintiff a plumber's permit.
- 1951 City vs. Rooney. Action begun to restrain plaintiff in error from entering into contract for the dredging of the Cuyahoga River. March 6, case heard and submitted. March 7, petition dismissed and decree for plaintiff in error.
- 1960 City vs. Sprankle. Appealed from Common Pleas Court. To restrain City from entering into contract for the dredging of the Cuyahoga River. Decree for plaintiff in error. Petition dismissed.
- 1971 City vs. Kerruish. Action begun in Common Pleas Court, October 5, 1895. March 18, 1897, verdict for plaintiff for \$800. Affirmed by Circuit Court, June 24, 1897.
- 1992 State ex rel T. L. Strimple vs. Wm. Bingham et al. Quo warranto proceedings to oust the Sinking Fund Commission, begun April 23, 1897.
- 1993 State ex rel T. L. Strimple vs. J. H. McBride et al. Quo warranto proceedings to oust the Park Board, begun April 23, 1897.
- 2008 City vs. Tilden. Error to Common Pleas. Action begun in Probate Court to recover for damages arising from change of grade of Tilden Avenue.
- 2015 Thomas M. Brown vs. City et al. Appealed from Common Pleas. Action begun to restrain defendant from entering into contract with the Sun Vapor Light Company.
- 2031 American Surety Co. vs. Reader et al. Action begun in Common Pleas, April 11, 1896, for money and equitable relief. March 15, 1897, judgment for plaintiff affirmed as found in Probate Court. Appealed to Circuit Court.
- 2041 City vs. Phillips. Action begun in Common Pleas Court to recover \$300 for land used in widening Superior Street. Verdict for defendant in error, Phillips. July 11, 1897, petition in error filed in Circuit Court.
- 2049 State ex rel City of Cleveland vs. Cleveland Electric Railway Co. Action begun July 24, 1897, to restrain defendant from tearing up street car tracks on Murray Hill Avenue.

- 2053 Sommer et al. vs. Hubbard et al. Action to restrain defendants from collecting taxes. Appealed from Common Pleas.
- 2066 City vs. Denison et al. Action for money only. Error to Common Pleas.

COMMON PLEAS COURT.

- 58346 Van Arnhem vs. Heide et al. Action begun January 6, 1897, to recover \$1,000 damages for injuries sustained by plaintiff in resisting arrest.
- 58364 Bohm & Stuhr vs. Coben et al. Action begun January 6, 1897, for equitable relief and to recover \$732.02 on note and account.
- 58387 City vs. Shields et al. Action begun January 8, 1897, to recover \$5,000 damages for breach of contract on the part of defendant for refusing to supply the City with water pipe as per contract.
- 58470 Lorenz Sommer et al. vs. Hubbard et al. Action begun January 15, 1897, to restrain defendants from collecting tax for widening Bazetta Street. July 16, 1897, decree for plaintiff. Case appealed to Circuit Court.
- 58492 Johnson et al. vs. City et al. Injunction and equitable relief. Action begun January 18, 1897, to restrain defendants from collecting taxes.
- 58521 Sylvester vs. City et al. Action begun January 20, 1897, for injunction and equitable relief, to restrain City from collecting taxes.
- 58618 Leiblang vs. Glauber et al. Action begun January 29, 1897, to recover \$25,000 damages for personal injuries received by reason of falling into a hole at corner of East River and Main Streets.
- 58832 Kemmett vs. Campbell et al. Action begun February 19, 1897, for recovery of \$10,000 damages for personal injuries.
- 58907 Stuard vs. City. Action begun February 26, 1897, to recover \$15,000 for personal injuries. October 8, 1897, case settled by payment to plaintiff of the sum of \$110 in full settlement.
- 58927 Wilson vs. City. Action begun February 27, 1897, to recover \$15,000 damages for personal injuries.
- 58938 Rooney vs. City et al. Action begun March 1, 1897, for injunction and equitable relief. To restrain city from entering into contract for dredging of the Cuyahoga River. March 3, 1897, decree for plaintiff. Case appealed.
- 59082 Sprankle vs. City et al. Injunction and equitable relief. To restrain City from entering into contract for dredging of the Cuyahoga River. Decree for plaintiff. Case appealed to Circuit Court.
- 59054 Emerman vs. Bruder. Action begun March 12, 1897, for recovery of \$5,000 for false arrest and libel. May 20, demurrer to petition sustained.

- 59126 Smith vs. City. Action begun March 18, 1897, to recover \$600 for damages resulting from overflow on Lorain Street.
- 59156 Desnoyers vs. City. Action begun March 20, 1897, to recover \$749.12 for plumbing done for City.
- 59166 Bissett vs. Ross et al. Action begun March 23, 1897, for recovery of money only. False arrest.
- 59206 Schnitzer vs. Cleveland Electric Railway Co. et al. Action begun March 27, 1897, to recover \$5,000 damages for personal injuries. April 28, 1897, case settled at railway company's costs.
- 59351 Carter vs. Wittenberg et al. Action begun April 10, 1897, for foreclosure.
- 59376 Franz vs. City. Action begun April 12, 1897, for recovery of \$5,000 damages for personal injuries.
- 59507 Haserot vs. Warden. Action begun April 26, 1897, to restrain defendant from paving Woodland Avenue. April 28, 1897, case dismissed.
- 59570 Witt vs. Woelke et al. Action begun May 4, 1897, to recover \$5,000 damages for false arrest, while making speech on Square.
- 59576 Hubbell vs. Washington. Action begun May 4, 1897, to recover \$1000 damages for false arrest.
- 59674 Caffery vs. Connors. Action begun May 13, 1897, to recover \$1000 damages for false arrest.
- 59693 Thomas Brown vs. City et al. Action begun May 15, 1897, to restrain City from entering into contract with the Sun Vapor Light Co. May 24, 1897, decree for defendants.
- 59733 Cavanaugh vs. City. Action begun May 20, 1897, to recover money only. \$20,200.
- 59762 Beckman vs. Neiberg et al. Action begun May 24, 1897, for accounting and to subject lands.
- 59802 Braun et al. vs. City. Action begun May 29, 1897, to recover \$387.20.
- 59806 Kushner vs. City et al. Action begun May 29, 1897, to recover \$10,200 damages for personal injuries.
- 59834 State ex rel Bramley vs. M. G. Norton. Mandamus to compel defendant to approve contract for the grading of Vine Street (with labor ordinance incorporated). June 21, 1897, demurrer to answer of defendant overruled.
- 59968 Zillmer vs. City. Action begun June 16, 1897, to recover \$5000 for personal injuries.
- 60109 State ex rel Alfred Quinn vs. H. H. Burgess et al. Mandamus proceedings begun June 30, 1897, to compel defendants to pay local bounty. Case settled on payment of bounty.
- 60173 In re boulevarding of Euclid Avenue. September 4, 1897, petition filed.

- 60174 Mary Ann Green vs. City et al. Action begun July 8, 1897, for money and equitable relief. September term, 1897, wages of George S. Green released.
- 60253 In re application of Wm. Dean vs. P. H. Dorn. Habeas corpus proceedings commenced July 16, 1897. July 17, 1897, petition dismissed.
- 60256 McDermott vs. City. Action begun July 15, 1897, for recovery of money only.
- 60308 State ex rel Charles Missar vs. H. Buckley, et al. Mandamus proceedings commenced July 21, 1897, to compel defendant to recognize plaintiffs as Executive Committee of Democratic party. July 23, 1897, petition dismissed at plaintiffs' costs.
- 60386 Bridget Welsh vs. City. Action begun July 27, 1897, to recover \$5,000 damages for personal injuries received at Willson Avenue fill.
- 60485 Bigelow et al. vs. City. Equitable relief. Action begun August 4, 1897.
- 60616 Schwyer vs. City. Action begun August 18, 1897, to recover \$5,000 for personal injuries.
- 60651 Kelly vs. Akers. Habeas corpus proceedings. Action begun August 22, 1897. Petition granted August 24, 1897.
- 60735 In re Frank Gordon vs. P. H. Dorn. Habeas corpus proceedings. August 31, 1897, petition filed. September 3, 1897, petition dismissed.
- 60799 Farthman vs. Wachs et al. Money and equitable relief. \$1,204 with interest. Action begun September 4, 1897. October 1, 1897, case dismissed as to City.
- 60846 Hyland vs. Casey, patrolman. Action begun September 10, 1897, to recover \$2,025 damages for false arrest.
- 61034 Patton vs. City. Action begun September 28, 1897, to recover \$10,000 damages for personal injuries received on Main Street bridge.
- 61035 Sanders, Admx., vs. City. Action begun September 25, 1897, to recover \$10,000 damages for loss of life in falling on ice near Miles avenue.
- 61042 Lippus vs. Lippus et al. Divorce and alimony. City garnished.
- 61059 Corcoran vs. Reppenhagen. \$10,000 damages for false arrest.
- 61060 Corcoran vs. Reppenhagen. \$1,000 damages for false arrest.
- 61206 Berns vs. Ross. \$1,500 damages for forcible and unlawful detention of child.
- 61226 Smith vs. City et al. Action begun October 18, 1897, to test the validity of library bonds.

- 61247 Seaborn vs. City, Action begun October 19, 1897, to recover \$1,750, alleged pay as fireman.
- 61289 Platt vs. City et al. Dower. City garnished.
- 61348 Hughes vs. City. Action begun October 27, 1897, to recover \$15,000 for personal injuries received in falling into a man-hole at corner of Bridge and Jersey streets.
- 61250 Mylett vs. Mylett et al. Action begun November 24, 1897, to recover alimony. City garnished.
- 61406 Case, Trustee, vs. City. Action begun November 2, 1897, for money and foreclosure of lien. Amount claimed, \$1,794, with interest.
- 61625 Foster vs. Foster et al. Action begun November 24, 1897, for divorce, alimony and relief.
- 61718 Sogolovitz vs. Cannell et al. Action begun December 2, 1897, to subject funds and for equitable relief.
- 61784 Le Duke vs. O'Brien et al. Action begun December 8, 1897, for dissolution of partnership, receiver and relief.
- 61859 McCauley vs. Biddlingmeyer et al. Action begun December 16, 1897, to recover \$5,000 damages for false arrest.
- 61867 Dowdell vs. McGinty. Action begun December 18, 1897, to recover \$5,000 damages for false arrest.

COURT OF INSOLVENCY.

- City vs. Forest City Wire & Iron Company et al. Application to assess compensation for land appropriated for Ramsey Street sewer filed March 17, 1897.
- Cleveland Terminal & Valley Railroad Company vs. City. Application to assess compensation for land appropriated for right of way through Infirmary Farm, filed March 18, 1897. April 7, 1897, verdict for \$6,078.
- City vs. Klump et al. Application to assess compensation for land appropriated for extension of Sherman Street, filed May 8, 1897. May 20, 1897, verdict for defendant Klump for \$175; for Jacob Helm for \$2,000.
- City vs. Schmitt et al. Application to assess compensation for land appropriated in the opening of Halsey Street, filed July 13, 1897. August 5th awards as follows: For defendant Van Valkenberg, \$100; Mary Roy, \$652; F. H. and C. H. Jackson, \$225, and Bernard Schmitt, \$480.
- City vs. Beidatch et al. Application to assess compensation for land appropriated in opening and extending Berwick Street, filed July 24, 1897. August 5th awards as follows: Eva Cleveland, \$100; Adam Beidatch, \$450; N. A. Gilbert, \$600, and Ellen Kells, \$1,000.

City vs. McTigue et al. Application to assess compensation for land appropriated for park purposes, filed August 5, 1897. October 1, 1897, verdict for defendant McTigue for \$625. October 30, 1897, quit-claim deed obtained.

City vs. McGuire et al. Application to assess compensation for land appropriated for Willett Street bridge, filed August 16, 1897.

City vs. Wooldridge. Appropriation proceedings commenced August 11, 1897, for slope right for the Willson Avenue bridge. October 29, 1897, verdict for defendant Wooldridge for \$2,500. October 30, 1897, motion for new trial.

City vs. Reed et al. Application to assess compensation for land appropriated for Warner Road improvement, filed December 9, 1897.

The following cases were brought and disposed of in Justice Courts :

Ed. Clifford vs. John B. Bruggeman. Order of Attachment.

W. B. Hopkins vs. Herman Sauer. Order in aid of execution.

T. S. Waterfield vs. J. Canfield. Order of Attachment.

J. W. Fawcett vs. J. Bruggeman. Order in aid of execution.

C. L. Deuker vs. C. L. Meachem. Order in aid of execution.

Wm. H. Bevis vs. Conrad Hoffman. Order in aid of execution.

E. A. Hardy vs. Wm. Snell. Order of Attachment.

E. A. Hardy vs. A. Donovan. Order of Attachment.

E. A. Hardy vs. Patrick Ferry. Order of Attachment.

E. A. Hardy vs. Neil McNulty. Order of Attachment.

Wm. J. Perry vs. Ed. Davis. Order of Attachment.

Harry Sands vs. Bert Smith. Order of Attachment.

W. E. Heffron vs. James Dwyer. Order of Attachment.

Inez Clyne vs. L. E. Thomas. Order in aid of execution.

F. H. Grove vs. L. E. Thomas. Order in aid of execution.

Inez Clyne vs. L. E. Thomas. Order of Attachment.

Mrs. Kate Beek vs. J. Hammon. Order of Attachment.

David E. Ryan vs. Elmer E. Trowbridge. Order in aid of execution.

Spero & Levy vs. Art. Kuntz. Order in aid of execution.

E. F. Biggins vs. Art. Kuntz. Order in aid of execution.

Wm. J. Mahon vs. C. J. Engel. Order in aid of execution.

F. Wieland vs. Geo. Bailey. Order of Attachment.

Mary Schriefer vs. W. F. Chamberlain. Order of Attachment.

J. Schmidt vs. Fred. Grusetsky. Order of Attachment.

Edw. Hauraty vs. John Bruggeman. Order in aid of execution.

- J. K. Meaher vs. C. J. Hoffman & Kalbrunner. Order of Attachment.
J. H. Delaney vs. P. R. Putnam. Order in aid of execution.
Jas. F. Harding vs. Michael Adams. Order of Attachment.
Joe Winkler vs. Philip Sporter. Order in aid of execution.
Katharine Joyce vs. M. Cunningham. Order of Attachment.
Julia M. Johnson vs. Charles Arnold. Order of Attachment.
H. D. Patchin vs. Wm. Snell. Order of Attachment.
George W. Mayhem vs. John Gillespie. Order of Attachment.
Pat Malloy vs. Cornelius McNulty. Order of Attachment.
Pat Malloy vs. Pat Ferry. Order of Attachment.
A. H. Kohlauner, Proprietor Star Cigar Manufactory, vs. Ralph Lehman.
Order in aid of execution.
Samuel Goodman vs. Frank W. Schwentner. Order in aid of execution.
Lizzie McKenzie vs. Wallace Chamberlain. Order in aid of execution.
Henry Rundt vs. John Bruggeman. Order in aid of execution.
E. R. Royer vs. M. J. Kelly. Order of Attachment.
D. D. Doran vs. John Roys. Order of Attachment.
D. D. Doran vs. John Cassiday. Order of Attachment.
Leonard Wiedeman vs. Warren Quayle. Order in aid of execution.
James Harding vs. R. N. Partridge. Order of Attachment.
Herman Webber vs. Charles Klaue. Order in aid of execution.
Mary McCue vs. Edward Harrison. Order of Attachment.
Christ Miller vs. J. F. Brown or Frank Brown. Order of Attachment.
G. W. Mayhem vs. John Gillespie. Order of Attachment.
Frank J. Vacha vs. Wm. Rowbottom. Order in aid of execution.
Henry White vs. Louis White. Order of Attachment.
Thomas Ryan vs. George Mulholland. Order in aid of execution.
Charles Briggs vs. W. F. Chamberlain. Order in aid of execution.
T. F. Fitzgerald vs. Joe Horadosky. Order of Attachment.
T. F. Fitzgerald vs. Robert Murphy. Order of Attachment.
W. H. Harrison vs. J. Harmon. Order in aid of execution.
Mattie Brown vs. Sadie Adams. Order of Attachment.
Nora Mullen vs. W. F. Chamberlain. Order in aid of execution.
W. J. Molitor vs. Hugh Hussey. Order in aid of execution.
D. E. Leslie, Executor, vs. J. F. Strong. Order of Attachment.
Mabel Graham vs. Bert Shaffer or Bert Barry. Order of Attachment.
Anton Bechler vs. John Ochs. Order of Attachment.
A. W. Bradley vs. John Ochs. Order of Attachment.
Anton Bechler vs. Adam Welker. Order of Attachment.

F. Fitzgerald vs. Robert Murphy. Order in aid of execution.
 Sarah McTigue vs. W. F. Chamberlain. Order in aid of execution.
 E. Ledintz vs. Wm. Snell. Order in aid of execution.
 E. Ledintz vs. R. J. Hooper. Order in aid of execution.
 E. Ledintz vs. John Deinst. Order of Attachment.
 David Doran vs. C. H. Rois alias Roys. Order of Attachment.
 Mathew Brown vs. Wm. Snell. Order of Attachment.
 Tillie Mecklenberg vs. John Bruggeman. Order in aid of execution.
 S. Pfundstein vs. C. O. Klaue. Order in aid of execution.
 Rosa Sogolwetz vs. C. E. Cannell and Cannell & McDowell. Order in aid of execution.
 Bill & Overton vs. Patrick G. Ferry. Order in aid of execution.
 C. H. Briggs vs. Wallace F. Chamberlain. Order in aid of execution.
 Herman Weber vs. Wm. Weatherhead. Order in aid of execution.
 J. A. Smith vs. John E. Thomas. Order in aid of execution.
 F. D. Brandenburg vs. C. F. Spahlingar. Order in aid of execution.
 Maggie Jones vs. W. F. Chamberlain. Order in aid of execution.
 S. C. Evans vs. Wm. Long. Order of Attachment.
 Harman vs. The City of Cleveland. Damages to horse.
 Daykin vs. Waterbury. Order of Attachment.
 Hercules Powder Co. vs. Cannell & McDowell. Order in aid of execution.
 Maggie Jones vs. W. F. Chamberlain. Order to pay on judgment.
 E. Ledintz vs. John Dienst. Order of Attachment.
 James T. Harding vs. W. A. Sherman. Order of Attachment.

Cases disposed of during the period between December 31, 1896, and January 1, 1898.

CIRCUIT COURT OF THE UNITED STATES.

5419 R. D. Wood & Co. vs. City of Cleveland. Injunction for infringement of patent. January 30, 1897, permanent injunction granted.

DISTRICT COURT OF THE UNITED STATES.

2134 Hawgood & Avery Transit Co. vs. City of Cleveland. Action begun November 6, 1895, to recover damages sustained in collision with Upper Seneca Street bridge. March 20, 1897, decision for libellant. Appealed to United States Circuit Court of Appeals.
 2140 William Chisholm et al. vs. The City of Cleveland. Action begun January 16, 1896, to recover damages sustained in collision with Upper Central Way bridge. Decree for libellant. Appealed to United States Circuit Court of Appeals.

dict for plaintiff. Appealed to Circuit Court ; judgment of lower Court affirmed. May 1, 1897, petition in error filed in Supreme Court.

- 5706 Whitbeck, Treasurer, vs. Crocker. Action begun in Common Pleas Court to recover taxes paid to City. Judgment for plaintiff. Appealed to Circuit Court. Judgment of lower court affirmed. September 19, 1897, petition in error filed in Supreme Court.

CIRCUIT COURT OF CUYAHOGA COUNTY.

- 1933 State ex rel C. H. Black vs. D. E. Wright. Action begun February 6, 1897, to compel defendant to issue to plaintiff a plumber's permit.
- 1951 City vs. Rooney. Action begun to restrain plaintiff in error from entering into contract for the dredging of the Cuyahoga River. March 6, case heard and submitted. March 7, petition dismissed and decree for plaintiff in error.
- 1960 City vs. Sprankle. Appealed from Common Pleas Court. To restrain City from entering into contract for the dredging of the Cuyahoga River. Decree for plaintiff in error. Petition dismissed.
- 1971 City vs. Kerruish. Action begun in Common Pleas Court, October 5, 1895. March 18, 1897, verdict for plaintiff for \$800. Affirmed by Circuit Court, June 24, 1897.
- 1992 State ex rel T. L. Strimple vs. Wm. Bingham et al. Quo warranto proceedings to oust the Sinking Fund Commission, begun April 23, 1897.
- 1993 State ex rel T. L. Strimple vs. J. H. McBride et al. Quo warranto proceedings to oust the Park Board, begun April 23, 1897.
- 2008 City vs. Tilden. Error to Common Pleas. Action begun in Probate Court to recover for damages arising from change of grade of Tilden Avenue.
- 2015 Thomas M. Brown vs. City et al. Appealed from Common Pleas. Action begun to restrain defendant from entering into contract with the Sun Vapor Light Company.
- 2031 American Surety Co. vs. Reader et al. Action begun in Common Pleas, April 11, 1896, for money and equitable relief. March 15, 1897, judgment for plaintiff affirmed as found in Probate Court. Appealed to Circuit Court.
- 2041 City vs. Phillips. Action begun in Common Pleas Court to recover \$300 for land used in widening Superior Street. Verdict for defendant in error, Phillips. July 11, 1897, petition in error filed in Circuit Court.
- 2049 State ex rel City of Cleveland vs. Cleveland Electric Railway Co. Action begun July 24, 1897, to restrain defendant from tearing up street car tracks on Murray Hill Avenue.

- 2053 Sommer et al. vs. Hubbard et al. Action to restrain defendants from collecting taxes. Appealed from Common Pleas.
- 2066 City vs. Denison et al. Action for money only. Error to Common Pleas.

COMMON PLEAS COURT.

- 58346 Van Arnhem vs. Heide et al. Action begun January 6, 1897, to recover \$1,000 damages for injuries sustained by plaintiff in resisting arrest.
- 58364 Bohm & Stuhr vs. Coben et al. Action begun January 6, 1897, for equitable relief and to recover \$732.02 on note and account.
- 58387 City vs. Shields et al. Action begun January 8, 1897, to recover \$5,000 damages for breach of contract on the part of defendant for refusing to supply the City with water pipe as per contract.
- 58470 Lorenz Sommer et al. vs. Hubbard et al. Action begun January 15, 1897, to restrain defendants from collecting tax for widening Bazetta Street. July 16, 1897, decree for plaintiff. Case appealed to Circuit Court.
- 58492 Johnson et al. vs. City et al. Injunction and equitable relief. Action begun January 18, 1897, to restrain defendants from collecting taxes.
- 58521 Sylvester vs. City et al. Action begun January 20, 1897, for injunction and equitable relief, to restrain City from collecting taxes.
- 58618 Leiblang vs. Glauber et al. Action begun January 29, 1897, to recover \$25,000 damages for personal injuries received by reason of falling into a hole at corner of East River and Main Streets.
- 58832 Kemmett vs. Campbell et al. Action begun February 19, 1897, for recovery of \$10,000 damages for personal injuries.
- 58907 Stuard vs. City. Action begun February 26, 1897, to recover \$15,000 for personal injuries. October 8, 1897, case settled by payment to plaintiff of the sum of \$110 in full settlement.
- 58927 Wilson vs. City. Action begun February 27, 1897, to recover \$15,000 damages for personal injuries.
- 58938 Rooney vs. City et al. Action begun March 1, 1897, for injunction and equitable relief. To restrain city from entering into contract for dredging of the Cuyahoga River. March 3, 1897, decree for plaintiff. Case appealed.
- 59082 Sprankle vs. City et al. Injunction and equitable relief. To restrain City from entering into contract for dredging of the Cuyahoga River. Decree for plaintiff. Case appealed to Circuit Court.
- 59054 Emerman vs. Bruder. Action begun March 12, 1897, for recovery of \$5,000 for false arrest and libel. May 20, demurrer to petition sustained.

- 48677 Hasenpflug vs. Day et al. Action begun March 27, 1894, to recover \$20,000 damages by reason of injuries sustained from falling into man-hole at corner of Erie and Rockwell Streets. February 10, 1897, verdict for plaintiff for \$200.
- 49765 Lambert vs. Lambert et al. Action begun July 24, 1894, for alimony, injunction and equitable relief. City garnished. Motion for alimony granted on May 4, 1897, City ordered to make a distribution of money in its hands.
- 50337 Green vs. Green et al. Divorce and alimony. May 6, 1897, case dismissed without prejudice.
- 50489 Connelly vs. Board of Education. Action begun October 8, 1894, to recover money due plaintiff as school enumerator. May 11, 1897, settled at defendant's cost.
- 50723 Henderson vs. City. Action begun October 27, 1894, for money only. June 7, 1897, case heard and jury directed to bring in verdict for defendant. Verdict for defendant.
- 51250 Southern vs. Creter et al. Action for money only. February 15, 1897, judgment for plaintiff against defendant Creter for \$700 and costs.
- 51657 Steller vs. City. Action begun February 2, 1895, to recover \$25,000 damages for personal injuries received at Main Street bridge. November 27, 1897, verdict for defendant.
- 51719 Webber vs. Maloney et al. Action begun February 1, 1895, for recovery of money. June 7, 1897, case dismissed at plaintiff's costs.
- 52075 Powers vs. City. Action begun March 25, 1895, for recovery of \$6,550, for personal injuries. May 28, 1897, case dismissed, costs paid, no record.
- 52127 O'Connor vs. City. Action begun March 30, 1895, for recovery of \$15,000 for personal injuries. February 17, 1897, case settled at defendant's costs, plaintiff to receive \$200.
- 52288 McArdle vs. City et al. Action begun April 17, 1895, for recovery of \$10,000 for personal injuries received from falling into barricade at Jefferson Street bridge. October 21, 1897, verdict for defendants.
- 52538 Bliss et al. vs. Hubbard et al. Action begun May 13, 1895, to enjoin defendants from collecting assessments. May 22, 1897, case dismissed for want of prosecution.
- 52640 Forest vs. City. Action begun May 23, 1895, for recovery of \$5,000 for personal injuries. May 6, 1897, \$150 paid to plaintiff in full settlement.
- 52753 Hirkala vs. Kiel. Action begun June 7, 1895, for recovery of \$5,000 for personal injuries. May 11, 1897, case dismissed by plaintiff.
- 52800 McAllister-Dall Building Co. et al. vs. City. Relief. June 10, 1895, action begun to restrain City from building City Hall in Public Square. July 1, 1897, case dismissed without prejudice.

- 53024 **Wentworth vs. City.** Action begun July 10, 1895, for recovery of \$2,000. July 2, 1897, case dismissed by plaintiff at defendant's costs.
- 53029 **McDonald vs. City et al.** Action begun July 10, 1895, for recovery of \$3,000 for personal injuries. January 27, 1897, \$100 paid to plaintiff in full settlement.
- 53072 **Cale vs. City.** Action begun July 13, 1895, for recovery of \$10,000 for personal injuries. May 29, 1897, case dismissed for want of prosecution.
- 53315 **Leon vs. City.** August 12, 1895, action begun for the recovery of \$15,000 for personal injuries received. January 22, 1897, \$320 paid to plaintiff in full settlement.
- 53432 **Phillips vs. City.** Action begun August 23, 1895, for money only. May 6, 1897, judgment for plaintiff for \$461.65. Appealed to Circuit Court.
- 53657 **Leising vs. City,** Action begun September 17, 1895, for recovery of money only. May 7, 1897, verdict for defendant.
- 53675 **Walker vs. City.** Action begun September 18, 1895, for recovery of money only. May 18, 1897, \$650 paid to plaintiff in full settlement.
- 53855 **Kerruish et al. vs. City et al.** Action begun October 5, 1895, for money only. May 18, 1897, verdict for plaintiff for \$800. Case appealed to Circuit Court.
- 53953 **Cleveland Box Co. vs. City.** October 14, 1895, action begun for the recovery of money only for lumber appropriated by the City. May 17, 1897, case settled by payment to plaintiff of the sum of \$130.
- 54349 **Denison et al. vs. City.** Action begun November 19, 1895, for the recovery of money only. June 21, 1897, verdict for plaintiff by direction for \$1,853.40. Appealed to Circuit Court.
- 54632 **Donnelly vs. City.** Action begun December 24, 1895, for recovery of money only. June 11, 1897, case dismissed for want of prosecution.
- 54752 **City vs. Tilden et al.** January 17, 1896, action begun in Common Pleas Court. April 15, 1897, judgment of Probate Court affirmed. Appealed to Circuit Court.
- 54754 **Sauerheimer, Administrator, vs. Cleveland Electric Railway Co. et al.** Action begun July 20, 1896, to recover \$10,000 for loss of life in Viaduct accident. July 6, 1897, case settled at defendant's costs, railroad company paying settlement.
- 54767 **Sauerheimer vs. Cleveland Electric Railway Co. et al.** Action begun July 20, 1896, to recover \$10,000 for loss of life in Central Viaduct accident. July 6, 1897, case settled at defendant's costs, railroad company paying settlement.

- 54830 Grasselli vs. Hubbard, Treasurer. Action begun January 16, 1896, for injunction and equitable relief. July 24, 1897, case settled.
- 54947 Jacobs vs. Board of Education. Appealed from Justice Court. January 29, 1896, transcript filed. June 11, 1897, case dismissed for want of prosecution.
- 55008 Nagorski vs. City. Action begun February 1, 1896, for recovery of \$1,000 for damages caused by water flowing into cellar on Tod Street. June 2, 1897, settled at plaintiff's costs.
- 54915 Butler vs. Rees. Action begun January 24, 1896, to recover \$5,000 for false arrest. June 16, 1897, verdict for plaintiff for \$1.00.
- 55794 Cass vs. City. Action begun February 20, 1896, to recover for damages caused by overflow. December, 1897, verdict for plaintiff for \$453.
- 55335 Duss et al. vs. Firchow. Equitable relief. Action begun March 8, 1896. November 13, 1897, agreement of settlement filed. Settled without record, costs paid.
- 55654 Williams vs. Luck et al. Action begun April 3, 1896, to recover \$5,100 for personal injuries. Case settled October 20, 1897.
- 55748 Reader vs. American Surety Co. et al. Money and equitable relief. Action begun April 11, 1896. March 15, 1897, petition in error dismissed and probate judgment affirmed.
- 55752 Cleveland Brewing Co. vs. City. Error to Probate Court. Petition in error filed April 11, 1897. April 29, 1897, petition in error dismissed and Probate judgment affirmed.
- 55886 Schneider vs. Winchester et al. Money only. Amount claimed, \$4,000. Action begun September 30, 1896. October 7, 1897, case dismissed for want of bail for costs.
- 56089 State ex rel Downs vs. Hechler, Director of Fire Service. Mandamus to reinstate veterinary surgeon. June 23, 1897, alternative writ of mandamus refused.
- 56124 Southern vs. City. Injunction and equitable relief. Action begun May 7, 1896. October 5, 1896, injunction modified. May 18, 1897, case settled at defendant's costs.
- 58470 Sommer et al. vs. City et al. Action begun January 15, 1897, to restrain City from collecting tax for widening Bazetta Street. July 16, 1897, decree for plaintiff. Case appealed to Circuit Court.
- 58907 Stuard vs. City. Action begun February 26, 1897, to recover \$15,000 damages for personal injuries. October 8, 1897, case settled by payment to plaintiff of \$110 in full settlement.
- 58938 Rooney vs. City et al. Injunction and equitable relief. Action begun to restrain City from entering into contract for dredging the Cuyahoga River. March 3, decree for plaintiff. Case appealed.

- 59082 Sprankle vs. City. Action begun March 15, 1897, to restrain City from entering into contract for dredging the Cuyahoga River. Decree for plaintiff. Case appealed to Circuit Court.
- 59054 Emerman vs. Bruder. Action begun March 12, 1897, for recovery of \$5,000 for false arrest and libel. May 20, 1897, demurrer to petition sustained.
- 59206 Schnitzer vs. Cleveland Electric Railway Co. et al. Action begun March 27, 1897, to recover \$5,000 damages for personal injuries. April 28, 1897, case settled at railway company's costs.
- 59507 Haserot vs. Warden. Action begun April 26, 1897, to restrain defendant from paving Woodland Avenue. April 28, case dismissed.
- 59693 Thomas Brown vs. City et al. Action begun May 15, 1897, to restrain City from entering into contract with the Sun Vapor Light Co. May 24, 1897, decree for defendant.
- 59834 State ex rel Bramley vs. M. G. Norton. Mandamus to compel defendant to approve contract for the grading of Vine Street (with labor ordinance incorporated). June 21, 1897, demurrer to answer of City overruled.
- 59968 Zillmer vs. City. Action begun June 16, 1897, to recover \$5,000 damages for personal injuries. December 29, 1897, case settled, costs paid, no record.
- 60109 State ex rel Alfred Quinn vs. Burgess et al. Mandamus proceedings begun June 30, 1897, to compel defendants to pay local bounty. Case settled by payment of bounty.
- 60174 Mary Ann Green vs. City et al. Action begun July 8, 1897, for recovery of money and equitable relief. September term, 1897, wages of defendant George S. Green released.
- 60253 In re application of Wm. Dean vs. Dorn, Superintendent. Habeas corpus proceedings commenced July 16, 1897. July 17, 1897, petition dismissed.
- 60308 State ex rel Chas. Missar et al, vs. Hugh Buckley et al. Mandamus proceedings commenced July 21, 1897, to compel defendants to recognize plaintiffs as executive committee of Democratic party. July 23, 1897, petition dismissed at plaintiff's costs.
- 60735 In re Frank Gordon vs. Dorn, Superintendent. Habeas Corpus proceedings. August 31, 1897, petition filed. September 3, 1897, petition dismissed.
- 60651 Patrick Kelly vs. Akers. Habeas corpus proceedings. Petition filed August 22, 1897. Petition granted August 24, 1897.
- 60799 Farthman vs. Wachs. Money and equitable relief. Action begun September 4, 1897. October 1, 1897, plaintiff dismissed case as to City.

PROBATE COURT OF CUYAHOGA COUNTY.

City vs. Regan et al. Application to assess compensation for land appropriated for Alger Street sewer, filed September 16, 1896. Jury impaneled and assessed compensation for defendant Regan for \$750; defendant Hohlfelder, \$5,000. February 24, 1897, motion for new trial overruled.

INSOLVENCY COURT OF CUYAHOGA COUNTY.

Cleveland Terminal & Valley R. R. Co. vs. City. Application to assess compensation for land for right of way through Infirmary Farm. Amount awarded, \$6,078.

City vs. Klump et al. Appropriation of land for Sherman Street opening.

City vs. Schmidt et al. Appropriation for Halsey Street opening.

City vs. Beidatch et al. Appropriation of land for Berwick Street extension.

City vs. McTigue. Appropriation of land for park purposes.

CASES PENDING JANUARY 1, 1898.

UNITED STATES CIRCUIT COURT OF APPEALS.

544 City of Cleveland vs. The Hawgood & Avery Transit Co. Libel for collision. Upper Seneca Street bridge.

560 City of Cleveland vs. William Chisholm et al. Libel for collision, Upper Central Way bridge.

UNITED STATES CIRCUIT COURT.

4909 Brickell vs. City. Infringement of patent.

4910 Van Orden vs. City. Infringement of patent.

5017 Pennsylvania Co. vs. City et al. Injunction. (Whiskey Island.)

5156 Cleveland, Canton & Southern R. R. Co. vs. Knickerbocker Trust Co. Injunction, money and foreclosure.

5714 The Mercantile National Bank of Cleveland vs. R. S. Hubbard, Treasurer. Injunction.

5715 The First National Bank of Cleveland vs. R. S. Hubbard, Treasurer. Injunction.

5716 The Commercial National Bank of Cleveland vs. R. S. Hubbard, Treasurer. Injunction.

5717 The Cleveland National Bank of Cleveland vs. R. S. Hubbard, Treasurer. Injunction.

5718 The National City Bank of Cleveland vs. R. S. Hubbard, Treasurer. Injunction.

- 5719 The National Bank of Commerce of Cleveland vs. R. S. Hubbard, Treasurer. Injunction.
- 5720 The Union National Bank of Cleveland vs. R. S. Hubbard, Treasurer. Injunction.
- 5721 The Euclid Avenue National Bank vs. R. S. Hubbard, Treasurer. Injunction.
- 5722 The Central National Bank vs. R. S. Hubbard, Treasurer. Injunction.
- 5723 The State National Bank vs. R. S. Hubbard, Treasurer. Injunction.
- 5726 Western Reserve National Bank of Cleveland vs. R. S. Hubbard, Treasurer. Injunction.

DISTRICT COURT OF THE UNITED STATES.

- 2108 Gray vs. City. Collision. Damages caused by fire boat.

SUPREME COURT OF OHIO.

- 4922 Mack vs. DeGraff & Roberts Quarries et al. Money only.
- 5526 City vs. Baldt. Money only. Personal injuries.
- 5527 City vs. Cleveland Electric Railway Co. Money only. Broadway paving.
- 5229 Woodland Avenue & West Side Railway Co. et al. vs. Molt, Administratrix. Money only. Loss of life.
- 5550 City vs. Patrick Gorman. Money only. Personal injuries.
- 5551 City vs. Barkwill et al. Money only. Labor and material furnished.
- 5706 Whitbeck, Treasurer, vs. Crocker. Appealed from Circuit Court. Action to recover taxes paid.

CIRCUIT COURT OF CUYAHOGA COUNTY.

- 1230 Herrick vs. City. Injunction and equitable relief.
- 1469 City vs. L. S. & M. S. Railway Co. Injunction. Whiskey Island.
- 1874 Schlather et al. vs. Colahan et al. To recover for land.
- 1875 Schlather et al. vs. Colahan et al. To recover for land.
- 1878 Gorman vs. City et al. Appealed from Common Pleas Court.
- 1933 State ex rel C. H. Black vs. D. E. Wright. Injunction and equitable relief.
- 1992 State ex rel Strimple vs. Bingham et al. Quo warranto. Sinking Fund Commission.
- 1993 State ex rel Strimple vs. McBride et al. Quo warranto. Park Board.
- 2015 Thomas Brown vs. City et al. Injunction and equitable relief.
- 2031 American Surety Co. vs. Reader et al. Money and equitable relief.
- 2041 City vs. Phillips. Money only.

- 2049 State ex rel City of Cleveland vs. Cleveland Electric Railway Co. To restrain defendant from tearing up street car track on Murray Hill Avenue.
- 2053 Sommer et al. vs. Hubbard et al. Action to restrain defendants from collecting taxes for widening Bazetta Street.
- 2066 City vs. Denison et al. Error to Common Pleas.

COMMON PLEAS COURT OF CUYAHOGA COUNTY.

- 36391 Tuttle vs. City. Fairmount Street grading.
- 43320 Martens et al. vs. City et al. Money only. Personal injuries.
- 44438 City vs. Fliedner. Money only.
- 44537 McCauley et al. vs. Shields, Treasurer. Injunction and equitable relief.
- 45528 Harrison et al. vs. City. Money only. May 14, 1897, passed for settlement.
- 45533 Griffiths vs. City. Money only. May 14, 1897, passed for settlement.
- 45722 Steele vs. City. Money only.
- 46420 City vs. C. C. C. & St. L. Ry. Co. Recovery of real estate. Lake front.
- 47395 Board of Education vs. W. J. Hayes et al. Money only.
- 47598 Ohmenhauser vs. City et al. Injunction and equitable relief.
- 48149 French vs. City et al. Injunction. Bond Street paving.
- 48314 Shields vs. Griswold et al. To subject lands.
- 49042 The Canton & Malvern Fire Brick Paving Co. vs. Sterling et al. Money only.
- 49697 Mosinski et al. vs. City et al. Injunction and relief.
- 49579 Weitzel vs. Stanton. Money only.
- 49798 Meek vs. Cleveland Electric Railway Co. Money only.
- 50284 City vs. Gasser et al. For recovery of real estate. Highland Avenue.
- 50233 McManamon vs. City. Personal injuries.
- 50389 Hamlet of Lakewood vs. Weideman. For recovery of real estate. Highland Avenue.
- 51609 Steffen vs. City. Money only. \$20,000.
- 51100 Granger vs. Britton. Money only. \$10,000.
- 51298 Taylor et al. vs. Hubbard et al. Injunction and equitable relief.
- 52388 Hubbard, Treasurer, vs. City et al. To subject lands.
- 52628 Wieber vs. City. Money only.
- 52653 Ludwig vs. City. Money only. \$1,500.
- 52867 Sunderland vs. City. Money only. Injuries to horse.
- 52891 Leferink vs. Ottawa Co. et al. Money only. \$15,300.

- 53091 Young vs. City. Personal injuries.
53367 Collins vs. City. Money only. Personal injuries.
53454 Goulder vs. City. Money and equitable relief.
53493 Rafter vs. City. Money only.
53608 City vs. Leoliner et al. Money only.
54093 Urbanowitz vs. Board of Education et al. Accounting and equitable relief.
54461 Barth vs. Wachs. For recovery of money only.
54769 McCauley vs. Blee et al. For recovery of money only.
54905 Mahon vs. Burgess et al. Recovery of money only. \$600.
54751 National Fire Alarm Co. vs. City. Error to Probate.
54926 Ralston vs. Morgan et al. Money only.
54959 Leusch vs. City et al. Money only.
53003 Ware vs. Hubbard, Treasurer. Injunction.
55151 Hillman vs. Shibley. Money only. False imprisonment.
55320 Geary vs. Geary et al. City garnished.
55543 Whitehouse vs. Burgess et al. Money only.
55661 Roundey vs. City. Money only. Personal injuries.
56056 McMeans vs. City et al. Money only. Personal injuries.
Madigan vs. Murphy. Order in aid of execution.
Caton Business College Co. vs. McCormick. Order in aid of execution.
Caton Business College Co. vs. McCready. Order in aid of execution.
P. C. O'Brien vs. Hewitt. Order in aid of execution.
56162 Long vs. Shields & Lauer et al. Money only. Personal injuries.
56265 Nagorski vs. City. \$1,000 damages to property.
56307 Mitchell, Trustee, et al. vs. City. \$335 damages to property.
56317 Steiner vs. Moses. \$5,000 damages for false arrest.
56402 McCarty vs. Gavin. \$2,000 damages for false arrest.
56565 Cone vs. City. \$500 damages to property. Change of grade.
56598 Gallagher vs. City. \$25,000 damages for personal injuries.
56689 Bissett vs. City. \$3,000 damages to property.
56821 City vs. C. B. Townsend Brick & Contracting Co. To recover for breach of contract.
56822 City vs. Lockerbie. To recover for breach of contract.
56896 Sackett vs. Mawby. Replevin.
57098 Richards vs. City. \$5,000 damages for personal injuries.
57099 McKee vs. City. \$5,000 damages for personal injuries.
57253 Katterson vs. Heege. Damages for false arrest.
57266 Fire Association of Philadelphia vs. Zapf. City garnished.

- 57666 Eggers vs. City. Action to recover for work.
57767 Melchiors vs. City et al. \$15,000 damages for personal injuries.
57876 Wickline vs. Seely, Patrolman. Money only.
58193 Southern vs. Hubbard, Treasurer. Injunction and equitable relief.
58203 Kinney vs. City. \$10,000 damages for personal injuries.
58346 Van Arnhem vs. Heide et al. \$1,000 damages for injuries sustained in arrest.
58364 Bohm & Stuhr vs. Coben et al. Money and equitable relief.
Holt Lumber Co. vs. Jones. Order in aid of execution.
58387 City vs. Shields et al. Breach of contract. \$5,000.
58492 Johnson et al. vs. City et al. Injunction and equitable relief.
58521 Sylvester vs. City et al. Injunction and equitable relief.
58618 Leiblang vs. Glauber et al. Money only. Personal injuries.
58832 Kemmett vs. Campbell et al. Money only. Personal injuries.
58921 Wilson vs. City. \$15,000 damages for personal injuries.
59126 Smith vs. City. \$600 damage to land by overflow on Lorain Street.
59156 Desnoyers vs. City. To recover \$749.12 for plumbing done for City.
59166 Bissett vs. Ross. Money only. False arrest.
59351 Carter vs. Wittenberg. Foreclosure.
59376 Franz vs. City. Money only. Personal injuries.
59570 Witt vs. Woelke. Money only. False arrest.
59576 Hubbel vs. Washington. Money only. False arrest.
59674 Caffery vs. Connors. Money only. False arrest.
59733 Cavanaugh vs. City. Money only. \$20,200.
59762 Beckman vs. Neiberg et al. Accounting and to subject lands.
59802 Braum vs. City. Money only.
59806 Kushner vs. City et al. \$10,200 for personal injuries.
59968 Zillmer vs. City. \$5,000 damages for personal injuries.
60173 In re boulevarding in Euclid Avenue.
60256 McDermott vs. City. Money only.
60368 Bridget Welsh vs. City. Money only. Personal injuries.
60485 Bigelow et al. vs. City. Equitable relief.
60616 Schwyer vs. City. \$5,000 damages for personal injuries.
60846 Hyland vs. Carey. Money only. \$2,025.
61034 Patton vs. City. \$10,000 for personal injuries.
61035 Sanders, Administratrix, vs. City. \$1,000 damages for loss of life.
61042 Lippus vs. Lippus et al. Divorce and alimony. City garnished.
61059 Corcoran vs. Reppenhagen. \$10,000 damages for false arrest.
61060 Corcoran vs. Reppenhagen. \$10,000 damages for false arrest.

- 61206 Berns vs. Ross. \$1,500 damages for forcible detention of son.
61266 Smith vs. City et al. Injunction. Library bonds.
61247 Seaborn vs. City. To recover \$1,750 alleged pay as fireman.
61289 Platt vs. City et al. Dower. City garnished.
61348 Hughes vs. City. \$15,000 damages for personal injuries.
61250 Mylett vs. Mylett. Divorce and alimony. City garnished.
61406 Case, Trustee, vs. City. Money and foreclosure of lien.
61625 Foster vs. Foster et al. Divorce, alimony and relief.
61718 Sogolowitz vs. Cannell et al. To subject funds and equitable relief.
61784 LeDuke vs. O'Brien et al. Action begun for dissolution of partnership, receiver and relief.
61859 McCauley vs. Bidlingmeyer et al. \$5,000 damages for false arrest.
61867 Dowdell vs. McGinty. \$5,000 damages for false arrest.

COURT OF INSOLVENCY.

- City vs. Forest City Wire & Iron Co. et al. To appropriate land for Ramsey Street sewer.
City vs. McGuire et al. To appropriate land for Willett Street bridge.
City vs. Wooldridge et al. To appropriate land for Willson Avenue fill.
City vs. Reed et al. To appropriate land for Warner Road improvement.

SUMMARY.

Cases pending January 1, 1897 :

Circuit Court of the United States.....	4
District Court of the United States.....	4
Supreme Court of Ohio.....	5
Circuit Court of Cuyahoga County.....	13
Common Pleas Court of Cuyahoga County.....	116
Probate Court of Cuyahoga County.....	1
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	143

Cases begun during the year ending December 31, 1897 :

United States Circuit Court of Appeals.....	2
Circuit Court of the United States.....	12
Supreme Court of Ohio.....	7
Circuit Court of Cuyahoga County.....	13
Cuyahoga Common Pleas Court	60
Insolvency Court of Cuyahoga County	9
Justice Courts.....	86
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	189

Cases disposed of during the year ending December 31, 1897:

Circuit Court of the United States.....	1
District Court of the United States.....	3
Supreme Court of Ohio.....	5
Circuit Court of Cuyahoga County.....	12
Cuyahoga Common Pleas Court.....	62
Probate Court of Cuyahoga County	1
Insolvency Court of Cuyahoga County	5
Justice Courts.....	86
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	175

Cases pending January 1, 1898 :

United States Circuit Court of Appeals	2
Circuit Court of the United States.....	15
District Court of the United States	1
Supreme Court of Ohio.....	7
Circuit Court of Cuyahoga County.....	14
Common Pleas Court of Cuyahoga County.....	114
Insolvency Court of Cuyahoga County.....	4
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	157

Pleadings filed and other court business transacted during
the year ending December 31, 1897 :

Affidavits.....	130
Applications to assess compensation.....	10
Amended petitions.....	3
Answers.....	72
Briefs.....	37
Bills of Exceptions.....	6
Demurrers.....	24
Journal entries.....	17
Motions.....	36
Legal notices..	57
Petitions.....	12
Petitions in Error.....	9
Replies.....	8
Releases.....	30
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	451

The following schedule shows the nature and number of the various papers referred to and reported upon by this department for the year ending December 31, 1897 :

Agreements.....	12
Affidavits.....	4
Application.....	18
Abstracts.....	63
Bonds, official	173
Bonds, sewer builders'.....	99
Bonds, plumbers'	229
Bonds, miscellaneous.....	18
Contracts.....	248
Claims.....	67
Communications.....	12
Deeds	59
Leases.....	4
Miscellaneous papers.....	16
Opinions	24
Ordinances	450
Options	30
Proposals.....	13
Plats	24
Petitions	19
Pawn brokers' applications	27
Resolutions.....	349
Reports.....	13
Releases.....	4
Remonstrances	3
Waivers	8
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	1,486

The following schedule shows the nature and number of papers drawn up by this department, but not filed in court, during the year ending December 31, 1897:

Agreements.....	8
Applications.....	4
Bonds.....	22
Communications.....	195
Deeds.....	42
Leases.....	12
Miscellaneous papers.....	79
Opinions.....	36
Ordinances.....	42
Proposals.....	8
Releases.....	45
Resolutions.....	87
Petitions.....	8
Waivers.....	32
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	620

Money paid out in judgments, settlement of cases and as
awards :

DAMAGE CASES.

Amount Claimed.		Received.
\$ 403 97	R. J. Cram vs. City of Cleveland	\$ 00
10,000 00	Moran vs. City of Cleveland	1,750 00
1,000 00	Gabriel vs. City of Cleveland.....	150 00
2,141 97	Black et al. vs. Village of Brooklyn.....	175 00
800 00	Cleveland Baking Co. vs. City of Cleveland.....	00
700 00	Lindeman vs. Board of Education.. ..	00
20,000 00	Hasenpflug vs. Day et al.....	100 00
100 00	Connelly vs. Board of Education.....	00
10,748 00	Henderson vs. City of Cleveland.....	00
25,000 00	Steller vs. City of Cleveland	00
10,000 00	Webber vs. Maloney.....	00
6,550 00	Powers vs. City of Cleveland	200 00
15,000 00	O'Connor vs. The City of Cleveland.....	200 00
10,000 00	McArdle vs. The City of Cleveland.....	00
5,000 00	Hirkala vs. City of Cleveland	00
5,000 00	Forest vs. City of Cleveland	150 00
2,000 00	Wentworth vs. City of Cleveland	00
10,000 00	Cale vs. City of Cleveland.....	00
15,000 00	Leon vs. City of Cleveland.....	320 00
10,000 00	Leising vs. City of Cleveland	00
10,750 00	Walker vs. City of Cleveland	750 00
800 00	Kerruish vs. City of Cleveland.....	800 00
145 00	Cleveland Box Co. vs. City.....	130 00
10,000 00	Donnelly vs. City of Cleveland.....	00
10,000 00	Sauernheimer vs. City of Cleveland.....	00
10,000 00	Sauernheimer vs. City of Cleveland.....	00
1,000 00	Nagorski vs. City of Cleveland.....	00
600 00	Cass vs. City of Cleveland	453 00
5,100 00	Schnitzer vs. City of Cleveland.....	00
5,100 00	Williams vs. Luck et al.....	00
15,000 00	Stuard vs. City.....	110 00
5,000 00	Zillmer vs. City of Cleveland	75 00
100 00	Quinn vs. City of Cleveland.....	100 00
<hr/> \$222,938 94		<hr/> \$5,363 00

APPROPRIATION CASES.

ALGER STREET SEWER.

Regan.	\$ 750 00
Hohlfelder.	5,000 00
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	\$5,750 00

SHERMAN STREET OPENING.

Klump.	\$ 175 00
Helm.	2,000 00
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	\$2,175 00

HALSEY STREET OPENING.

Valkenberg.	\$ 100 00
Mary Roy.	652 00
C. H. & F. H. Jackson.	225 00
Bernard Schmidt.	480 00
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	\$1,457 00

BERWICK STREET EXTENSION.

Eva Cleveland.	\$ 100 00
A. Beidatch.	450 00
N. A. Gilbert.	600 00
Ellen Kells.	1,000 00
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	\$2,150 00

PARK BOULEVAND.

McTigue.	\$625 00
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APPROPRIATION OF LAND FOR RIGHT OF WAY OF THE CLEVELAND
TERMINAL & VALLEY R. R. CO.

Amount awarded to City.	\$6,078 00
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The following is a summary of the business of the Law Department for the year ending December 31, 1897 :

Cases pending in the various courts, January 1, 1897.	148
Cases brought by or against the City during the year ending December 31, 1897.	189
Cases disposed of during the year ending December 31, 1897.	175
Cases pending January 1, 1898.	157
Pleadings and papers prepared and filed in court.	451
Statements taken not filed.	157
Papers prepared and approved.	1,937

DEPARTMENT OF

CHARITIES AND CORRECTION

Department of Charities and Correction.

OFFICERS.

WILLIAM J. AKERS, Director.

HAROLD A. BUSHEA, Secretary.

W. K. RICKSECKER, Superintendent of Infirmary.

PHIL. H. DORN, Superintendent of House of Correction.

C. WAGNER, Supervisor of Cemeteries.

Director's Report.

HON. R. E. MCKISSON, *Mayor*.

CLEVELAND, O., January 1st, 1898.

DEAR SIR:—Herewith I have the honor to transmit the Annual Report of the Department of Charities and Correction for the year 1897.

In preparing this report some slight changes have been made in its arrangement, some tables that have appeared in former years having been eliminated and others added, in the main, however, the general outline has been preserved.

FINANCIAL.

The financial statement of the department, as a whole shows the receipts for the year, including cash on hand January 1st, 1897, to have been \$314,269.76; disbursements, \$262,664.25, leaving a cash balance in the hands of the City Treasurer to the credit of the Department of \$51,605.51.

Of the total receipts of the department, the Division of Infirmary received the sum of \$109,259.73, the portion allowed by law of the Dow and Cigarette tax, the balance was derived from the sales and earnings of the different divisions.

There is due the Division of Infirmary, for the care of indigent insane patients, \$68,830.79. In former years the County has reimbursed the City for this service, but has failed to do so for the last quarter of 1896 and all of 1897; the bills have been made as they became due and presented the County Commissioners for payment, but the Judge of the Probate Court, upon whose order the patients were committed, has refused to

sign the voucher authorizing the payment of the claim, therefore the Commissioners have withheld settlement. The Judge of the Probate Court continues to remand insane patients to the care of the City Infirmary, where they are received under protest, pending a settlement of the City's claim. I have placed the claim in the hands of the Director of Law, and asked to have the matter pushed forward to an early settlement. If the County is not liable for this service, the State certainly is, and it is an injustice that Cleveland should be compelled to bear the burden of supporting over three hundred incurable insane patients; no other city in the State is required to do this.

A special tax of \$6,190.50 was placed against the Infirmary property for the paving of Scranton avenue. It seems to me that special taxes of this nature should be paid by the city from its general fund, instead of placing it on its Institutions, which receive no portion of the general tax and are not directly interested in such improvements.

The splendid financial showing made by the House of Correction during the past two years has been well sustained during the year which has just closed, despite the decreased population and the increased cost of the food supplies. This Institution is not only self-sustaining, but it is operated at a profit large enough to permit of keeping its buildings and fixtures in first class condition, as well as adding each year to its permanent investment in the way of new and improved mechanical devices and facilities for doing business.

By reason of a breakage which occurred in the culvert carrying a portion of Kingsbury run across the House of Correction property, it was necessary to expend over \$2,500.00 in repairing the same. This expenditure, which neither increased the productive power of the manufacturing plant or added to its facilities as a penal institution, was a necessity in order to preserve what had already been accomplished in the way of filling the gully through which the run traverses, and which will be of great value as land on which to build as the needs of the institution increase. Had it not been necessary to meet this unexpected outlay, the net profit of the Division for the year would have been increased by that amount.

THE INSTITUTIONS.

As the population of the city increases the number of the indigent also increases; during the past year the average daily population of the Infirmary and Hospital was 753 (the largest in its history). This is an increase of 74 over the previous year.

Your attention is respectfully called to the report of Superintendent of the Infirmary, by which it will be seen that the entire per capita cost of maintenance and attendance per annum amounted to \$115.12 which is a decrease of \$1.79 per capita over the year of 1896.

The buildings, furniture and fixtures of the institution have been placed in first-class condition throughout: the roofing, tinning, and spouting have been renewed, the interior of the Infirmary and Hospital repainted, furniture repaired when possible; otherwise replaced with new and modern ware, separate quarters prepared and furnished for the old married couples so they could spend the few remaining days left them together, new toilet rooms added to the Infirmary Department, the old ones having become unsanitary, additions made to the surgical appliances and laboratory equipment, and portable bath tubs provided for the Hospital for use in fever cases. New machinery added to the laundry, new brick buildings erected for the outside work, additional heating facilities provided, and the boilers and machinery thoroughly over-hauled and placed in good repair. Whenever possible the labor of the inmates of the Middle and Insane wards has been utilized in doing this work.

Notwithstanding the fact that our insane wards are simply places of confinement for the indigent insane committed to our care, and that we are totally without the facilities that go to make up an Insane Asylum, still, with such meager methods as we have been able to apply during the past year, there has been discharged as cured from the Insane Department of the City Infirmary twenty-one patients who were committed to us as incurably insane.

I am satisfied that the care they have received, and the fact that they are all required to perform some out-of-door labor when possible, has in a large measure contributed to the cures that have been effected as above.

I would respectfully suggest that a House Physician be detailed to this department, who would give his entire time to the care and treatment of nervous and mind diseases.

During the past summer the necessary legislation was passed by the Council and contracts let for the construction of a building to be used for a Children's Hospital, and at this writing the structure is enclosed and under roof, and will be ready for occupancy by June 1st., 1898. When completed this building will accommodate 100 little ones in the different wards. Up to the present time \$10,400.00 has been expended and it will require an expenditure of about \$16,000.00 to complete the work in hand.

I would recommend the construction of two small "isolation buildings" to be used for Children's contagious diseases at a cost not exceeding \$800.00 each, one of which to be used for Scarlet Fever, and the other for Diphtheria cases. With this addition to the complement of buildings now in use and under construction, the city would be in excellent condition to care for all classes of its indigent sick.

There has been treated at the City Hospital during the past year a total of 1094 patients. This is 252 in excess of the number cared for in 1896. At that time it was feared that the limit of the capacity of the institution had been reached but by reason of the skillful medical treatment and careful attention given each patient, and the excellent work of the nurses, it has been possible to care for the increased population. For the first, credit must be given the members of the Medical Staff for their unfailing interest and devotion to this work of mercy. For the second, great praise is due the nurses, who under the able supervision of Miss Kirkpatrick have labored faithfully and intelligently for the best results.

Your attention is called to the report of Dr. S. W. Kelley, Secretary of the Medical Staff which will show the demands that have been made upon the staff and the resources of the institution.

Out of a total of \$29,803.14 disbursed for supplies in the Out-door Relief Department, over \$19,000.00 was expended during the first four months of the year; this extraordinary demand was occasioned, largely, by the excitement raised during

the early winter over the alleged unprecedented amount of suffering existing among the poor; the result of this was to attract to the city a horde of paupers from neighboring cities, and to direct the attention of impostors and the shiftless class towards the city and private charities. The bad effects of this are being felt at the present time, as the private charities were impoverished during the excitement of a year ago, and the result is that the city is now being called upon to care for a number of cases heretofore provided for by the private organizations.

In the administration of the Out-door Relief Department, since I came into office, I have demanded a rigid investigation into the condition of the applicants for relief, and where necessary to grant relief have required the head of the family, when able, to render a return in labor of some kind. As a result I have been able to furnish the labor for the making of a number of improvements, as well as completing some repairs which were necessary, and would have otherwise entailed an outlay in ready money; notably, at Erie Street Cemetery the fence along the entire north side of the grounds was reset by this labor, for which a contractor proposed to charge \$350.00; it was necessary to lay a new sewer in Valentine street to furnish drainage for the new Children's Hospital, by using the labor of the Out-door Relief Department a saving of over \$400.00 was made on the price it would have cost if let and built by contract. At West Park Cemetery all the preliminary work has been done by this labor, and by the time spring opens and we are ready to let contracts for grading and macadamizing, all the rough work will have been accomplished. This work has also another value; it has been the means of ridding our books of a number of lazy, worthless characters, that were content to allow the city to furnish them with supplies so long as no return was asked for, but now that they are aware they must work for what they receive, they go where they can obtain a return in money. During the last month of the year 976 days labor was obtained for assistance rendered, and each winter month hereafter will show an increase.

During the year just closed twenty-seven foreign paupers were deported with the assistance of the Federal Government. All of these cases had applied to the city for relief, and were de-

ported before they had acquired a residence in the United States. This was necessary to prevent them from becoming a perpetual charge on the city.

HOUSE OF CORRECTION.

This Institution, combining as it does a reformatory, penal institution and manufacturing plant, is the one, in my opinion, requiring the greatest care and study in its administration. How carefully those in charge have labored to make it excel in all its characters is most ably set forth in the report of Supt. Dorn.

The physical condition of the buildings is as good as it is possible to keep structures of their advanced age; a number of improvements have been made of a sanitary nature during the past year, a system of shower baths has been installed in place of the old individual tubs; new closets, urinals and washstands substituted for the old system which had become unsanitary; the roof of the main building has been placed in thorough repair and such other repairs as were necessary have been made, as well as a large amount of new and improved machinery added.

I heartily second the recommendation made by the Board of County Visitors that instead of the employes being housed and boarded in the institution additional compensation be granted them, sufficient to enable them to board outside the buildings. The dining room now used by the employes could then be converted to the use of the prisoners, who are at present forced to eat and sleep in practically the same room. This change would work a benefit not only to the prisoners but to the employes as well, who should not be required to be separated from their families.

The discipline of the institution has been well preserved and it speaks well for the kindness and firmness of those having charge of the prisoners, that it has not been necessary in a single instance to resort to harsh measures to enforce obedience; those of the inmates as are employed in the manufacturing department seem cheerful and willing to perform the tasks allotted them. It is to be hoped that the demand for our product will continue in the coming year as great as in the past, so that their labor can be employed in this direction.

The following persons were appointed by the Judge of the Common Pleas Court, as a Board of County Visitors: Gen.

James Barnett, Geo. T. Chapman, Judge E. J. Blandin, Mrs. D. E. Leslie, Mrs. S. Joseph and Mrs. W. J. Sheppard. This Board has made many visits to the different Institutions, and I am under many obligations to the members thereof for the kindly interest they have shown, and for the valuable suggestions offered by them. Their report is offered herewith, and I hope they will continue during the coming year to give me the benefit of their advice.

The officers and members of the local charitable organizations have also assisted me with their advice and experience, and I trust that during the coming year the City Charities and the private organizations can be brought in still closer relationship.

During the past year regular monthly meetings of the Board, consisting of the Mayor, Police Judge and Director of Charities and Correction, to whom is relegated the power to grant paroles or pardons to prisoners, have been held on the second Tuesday of each month, and the rule of releasing prisoners on parole at that time only has been rigidly adhered to. In only one or two instances have the paroles granted by the board been violated.

CEMETERIES.

By changing the site of the West Side Cemetery from Lorain Heights to the Pest House Farm, which will be known in the future as West Park Cemetery, there was added to the cemetery property of the city that which will be one of the most picturesque and beautiful burial places in the country. In addition to the property received in exchange, the Division of Cemeteries will also receive from the Division of Infirmary the sum of \$20,000.00 with which to purchase the additional land necessary to make the site complete, and still have from twelve to fifteen thousand dollars to make a start toward beautifying and placing the property in condition for doing business. This exchange was made upon the recommendation and request of citizens of the West and South Sides and the advice of competent engineers and landscape gardeners. In the past the most beautiful of the public cemeteries in the city have been located on the East Side, but with the completion of West Park Cemetery there will be located, within easy reach of the West and South Sides, a burial spot that promises to rival the famous cemeteries of the leading cities of

the country; certainly nothing in Cleveland or its neighboring cities can surpass it in natural beauty. A great deal of the preliminary work in the way of surveying, making plats and profiles has already been accomplished, as well as the rough work of removing under-brush, thinning out and removing dead and fallen timber, etc., which will be pushed forward during the winter with such labor as can be obtained from the Out-door Relief Department.

Contracts for the principal work will be let in the early spring, and I expect interments will be made in the cemetery during the coming summer.

The earnings of the Division of Cemeteries amounted to \$26,809.55 which is about \$2,500.00 less than during the previous year; it is but reasonable to expect that the earnings of the older cemeteries will become less each year; after a cemetery reaches a certain age, and the most desirable lots are disposed of, the income is certain to diminish. In addition to this all the lots in the cemeteries on the West Side are sold, and there are few grave spaces for sale, therefore we are deriving no income from that source. With the opening of West Park Cemetery, which is designed to furnish a burial ground for the West and South Sides, the earnings of the Division will show a large gain.

It seems to me that in addition to making the foregoing report, it is within my province to suggest what measures should be taken to prevent the growth of pauperism, and to prevent an increase in the expenditure of public funds for that purpose. Cleveland has long since ceased to be a village and has become the metropolis of Ohio, and one of the largest cities in the United States. Rules that guided the dispensation of the public charity a decade ago are not applicable to the present condition and character of our population. The number of paupers and criminals in proportion to the population has increased in a greater degree.

By reason of the rapid growth of the city in the past few years there has been attracted to it a large foreign element, many of whom having no sympathy or pecuniary interest in the municipal corporation, and whose ideas of citizenship have not as yet had an opportunity to develop. Among this class there is a deep founded belief that the city is bound to provide

for them in time of need, and that to them means when they are without steady employment ; they do not hesitate to ask for aid and when successful in obtaining what they desire, accept it with no compunction of conscience as to the manner in which it has been obtained. There is also a class of our own people who are as ready to practice fraud and imposition as the latter. It is with a view of lessening the imposition which is continually practiced upon the city and private charities that I have urged the necessity of the establishment of the Charity Clearing House to prevent the duplication of relief, detect fraud and provide means for more rigid investigation of the condition and worth of those applying for aid. It has been my object, and I have tried in every way to impress it upon others engaged in charitable work the necessity of rigid investigation, and where it is necessary to grant relief to make that relief of as temporary a character as possible, and in every way to assist those in distress into a position in which they can help themselves. The Charity Clearing House could accomplish much in this direction were it only patronized by the private charities ; with the co-operation of the city, I am sure it will be the means of lessening in a degree the amount of pauperism.

The future of the nation is in the hands of the children of to-day, who will be the citizens of to-morrow. The importance to society of the problem of properly caring and training them for the duties of citizenship cannot be overestimated. To the class of unfortunate youth born in poverty and reared in ignorance we owe a particular care, both to their physical and moral training. Up to the present time we have had no hospital in the city that could care for indigent children. The law does not allow minors to be cared for in the same building with adult indigents, and it was to meet this necessity that the Children's Hospital was projected. This institution will treat all classes of diseases and deformities ; it will be the means of preventing many a child from becoming a confirmed cripple, which, even with the best of opportunities, is a handicap in life's battle. It will also relieve the mothers upon whom devolves the great burden of their care, as well as in many cases their support. There are many instances in which a widowed mother is able to provide for her family by her own exertions as long as those de-

pendent upon her are in health, but let one of her family become ill and she is forced to give up her daily labor in order to minister to the necessities of her suffering child. If the sickness be prolonged, in the natural course of events she will either have to depend upon a private charity or go to the City Out-door Relief. Perhaps after the little one recovers she may be able to return to her employment, but in a great many cases she will find her place has been filled by another, and if continued ill luck pursues her she will soon become a regular dependent upon the city. The effect of this upon the children is far from beneficial, it destroys their self respect and the effects follow them through life.

With the Children's Hospital in operation, we will be able to relieve the mother of her charge in time of sickness and furnish better care and medical attendance than they possibly could receive at home, and in many cases cure them of what might otherwise become a chronic disease and thereby cause them to become a dependent upon charity.

The above institution will minister to the physical diseases of the poor children. Among the children of all classes there are a certain number who require a firmer discipline and a stronger moral training than they receive at home. The children of the poorer classes are from a necessity left more to themselves, than those of any other class. History proves that this is a country of vast possibilities, and that it is not improbable that the boot-black of to-day may one day sit in the White House and guide the destiny of the nation. It is remarkable that many of the great men which this country has produced, have sprung from the ranks of the most obscure class with whom existence is a struggle, and to whom the law of the survival of the fittest almost universally applies. It is to this class who are left almost entirely to themselves that the state should devote its care. A child left to himself or herself without proper restraint is almost sure to drift into evil ways, which sooner or later makes it necessary that forcible restraint be applied, and in order that such restraint be effective, it must be in the line of education, not only of the heart and head but of the hand as well. To accomplish this most effectually, houses of refuge and reform schools with restraining influences have been found necessary. In institutions of this kind,

children can be brought up under proper control and taught that respect for law and order which goes to make useful, law abiding citizens. Cleveland has no such institutions; our judges hesitate to send children of tender years to jails and workhouses, knowing the effects of the companionship of older criminals; the result is the culprit learns to have a contempt for the law, until he reaches an age when he must be treated as a criminal.

I sincerely trust that the recommendation contained in your communication to the Council in August last with regard to this matter, will be taken up and acted upon during the ensuing year. An institution of this kind should be provided which would combine a home, both mental and manual schools, and at the same time be a reformatory to which youthful incorrigibles could be committed. The law provides that children when committed to this institution shall remain there until of age, but vests in the Board of Managers power to grant paroles for good behavior.

In the Children's Hospital and the Refuge are provided the means of caring for the physical and moral training of our incorrigible youths. They both aim at the same result i. e. to decrease pauperism and vice.

The necessity for the enforcement of the Cumulative Sentence Law as a preventive against pauperism becomes more apparent to me every day. The records of the Workhouse show that we have many prisoners who have been sent there from 5 to 70 times, and all on short sentences. The law makes it a penal offense for a man to fail to support his family, he can be committed to the Workhouse for non-support or his wife can be granted a divorce upon the same grounds.

The head of the family is sent to prison by the Court as a punishment for some crime which he has committed. He is not punished near as much as the innocent members of his family whom he has wronged the most. The prisoner is well housed and well fed, but his family is often turned into the street to shift for itself, homeless and penniless and tainted with the stigma of being the family of a criminal; society is slow to extend them a helping hand, and too often the result is ruin. This is where the Workhouse is making criminals and paupers. The

Cumulative Sentence Law, providing as it does a short sentence for the first offense and increased period of servitude with every additional sentence, would be the means of causing the offender to fear the Workhouse. The short term prisoner is of but little value to the institution from a commercial standpoint when sent there for such minor offenses as drunkenness, and those of similar character ; for the first we simply build up the prisoner's system and send him out for another debauch, and when we receive him again under the oft recurring sentence of \$1.00 and costs, we have to go through the same process again, and by the time he is in fit condition to render some service his time has expired. The remedy for this is in longer sentences for repeated offense, thereby making the prisoner's labor more skilled and of greater value to the institution. This is the first step, then after his labor is of some commercial value, divide his earnings with those who are dependent upon him for support. As he becomes more skilled his labor will be of greater value and greater benefits will accrue to his family ; the moral effect upon the prisoner in any instance will be better. At the present time there are the names of many families upon our books in the Out-door Relief Department who are drawing supplies therefrom whose support is in the Workhouse. It is true that by dividing the earnings of the prisoner with his family the income of the House of Correction may be reduced, but in the end the city will not be the loser, as the expenditures of the Out-door Relief Department will be materially lessened.

The House of Correction was designed for a reformatory, and as such can accomplish much in arresting the downward steps of the wrong-doer, but we sadly misapply the use of the Institution when by committing a prisoner to its care for reformation we make paupers out of his family, or send them to the street to gain their daily bread by any means which presents itself.

This matter should be remedied at once, all that is necessary to be done is to take advantage of the legislation which has been enacted and enforce the Cumulative sentence law ; the effect of which will be :

- First, to instill in the petty offender a fear of the workhouse.
- Second, to increase the value of the prisoners' labor, and
- Third, and most important, to prevent pauperism and degreda-

tion in the family of the unfortunate who is committed to the care of the House of Correction.

The Humane Society purposes presenting to the legislature an amendment to the law which provides for the support of children by the parents; the amendment will make it compulsory upon the children to provide for their indigent parents. We are maintaining a number of old and decrepit men and women in the Infirmary whose children are in more than comfortable circumstances, but who refuse to provide for those who nourished and cared for them when they were unable to provide for themselves. It is to be deplored that it is necessary to enact a law to force a man or woman to fulfill their filial obligations, but it seems to be the case, and as other states have had to resort to the same measure, I hope the Society will be successful in its efforts.

The experience of the past year in dealing with the City's poor has simply confirmed my previous opinion, and that is, in brief, in order to reduce the amount of existing pauperism, we must make it harder for an unworthy person to live off charity, than by working for a living. Cases of genuine distress from causes which attach no blame to the unfortunate sufferer, should be promptly and humanely relieved; but when that relief is extended beyond the time when the recipient can care for himself or herself, we are doing not only them an injury but the community an injustice.

"To give worthily in charity is commendable; to give to the unworthy is a crime."

It would be better for the community, and far better for the poor if indiscriminate alms-giving could be abolished, that is the feature that works the greatest evil. A very large per cent. of the charity thus bestowed is misapplied.

I wish to express to your Honor, my fellow members of the Board of Control and the members of the City Council, my sincere thanks for the warm support and hearty co-operation that has been accorded me, and to commend the heads and employes of the different divisions for their faithful performance of duty.

Respectfully submitted,

WM. J. AKERS,

Director of Charities and Correction.

FINANCIAL STATEMENT.—1897.

RECEIPTS.

CASH ON HAND JANUARY 1, 1897.

Cr. of Division of Infirmary.....	\$ 45,610 94	
Cr. of Division of House of Correction.....	30,096 64	
Cr. of Division of Cemeteries	487 12	
Total.....		\$ 76,194 70

EARNINGS.

By Division of Infirmary.....	\$ 11,662 88	
By Division of House of Correction.....	70,787 30	
By Division of Cemeteries	26,809 55	
Total		109,259 73

TAXES.

Division of Infirmary's share of Dow and Cigarette Tax.....	117,737 33
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SALE OF LAND.

Division of Infirmary	\$ 6,078 00	
Division of Cemeteries.....	5,000 00	
		\$ 11,078 00
Total to be accounted for.....		\$ 314,299 76

FINANCIAL STATEMENT.—Continued.

DISBURSEMENTS.

FIXED CHARGES.

Division of Infirmary	\$ 26,594 79	
Division of House of Correction.....	22,048 63	
Division of Cemeteries.....	6,550 00	
Total		\$ 55,193 42

TAXES.

Division of Infirmary, account Scranton Avenue Paving....	6,190 50
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PERMANENT IMPROVEMENTS.

Land, Division of Infirmary	\$ 5,000 00	
Land, Division of Cemeteries	1,900 00	
Buildings, Division of Infirmary.....	13,014 58	
Culvert, Division of House of Correction	2,249 93	
Total		22,164 51

FURNITURE AND FIXTURES.

Division of Infirmary.....	\$ 2,280 86	
Division of House of Correction.....	364 53	
Division of Cemeteries.....	296 62	
Total.....		2,942 01

IMPLEMENTS AND MACHINERY.

Division of Infirmary	289 85
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SUPPLIES.

Division of Infirmary.....	\$106,314 92	
Division of House of Correction	21,364 54	
Division of Cemeteries.....	17,667 62	
Total.....		145,347 08

MANUFACTURE.

House of Correction, material, etc	30,536 88	
Total disbursements.....		\$ 262,664 25

CASH ON HAND DEC. 31, 1897.

Cr. of the Division of Infirmary.....	\$ 21,403 65	
Cr. of Division of House of Correction.....	24,319 43	
Cr. of Division of Cemeteries	5,882 43	
Total		51,605 51
Total		\$ 314,269 76

924

DEPARTMENT OF CHARITIES AND CORRECTION.

ASSETS OF THE DEPARTMENT.

CASH.		
To Cr. of Division of Cemeteries.....	\$ 5,882 43	
To Cr. of Division of Infirmary.....	24,319 43	
To Cr. of Division of House of Correction.....	21,402 65	
Total.....		\$ 51,605 51
REAL ESTATE AND BUILDINGS.		
Division of Cemeteries.....	\$208,088 48	
Division of House of Correction.....	310,912 90	
Division of Infirmary	642,786 58	
Total		\$1,216,683 65
INSTITUTION FURNITURE AND FIXTURES.		
Division of Cemeteries.....	\$10,769 20	
Division of House of Correction.....	34,772 20	
Division of Infirmary.....	26,139 92	
Division of Infirmary, tools and implements.....	884 96	
Division of Infirmary, office furniture.	317 50	
		72,873 77
Total		\$1,341,162 23
INVENTORY.		
Division of House of Correction, raw and manufactured stock on hand.....	\$32,460 71	
Division of Infirmary, supplies on hand, Infirmary and Hospital.....	3,666 25	
		36,126 96
Total		\$1,377,289 19
ACCOUNTS RECEIVABLE.		
Division of House of Correction.....	\$26,360 02	
Division of Cemeteries	1,591 75	
Division of Infirmary, due from Cuyahoga County for care of incurable insane.....	68,830 79	
Division of Infirmary, due from sundry individuals for board and care.....	2,104 94	
		98,817 50
Total		\$1,466,106 69

BOARD OF COUNTY VISITORS.

GENERAL JAMES BARNETT, *Chairman.*

GEORGE T. CHAPMAN,

JUDGE E. J. BLANDIN,

MRS. D. E. LESLIE,

MRS. S. JOSEPH,

MRS. W. J. SHEPARD, *Secretary.*

Report of Visiting Committee.

W. J. AKERS,

Director of Charities and Correction,

DEAR SIR:—The Board of Cuyahoga County visitors appointed by the Common Pleas Court, April 22d, 1897, wish to report to you that they have visited and thoroughly inspected the City Infirmary and Out-of-Door Relief Department, also the House of Correction.

Our visits in each instance were made without previous announcements. We found all of these institutions scrupulously neat and clean, and we think it is fitting that we should say that the Infirmary is as much like a home as it is possible for any institution to be made.

We most heartily endorse your humane act in allowing the old people who are married to room together, instead of living in separate parts of the building as in the past.

We approve your method of having all the inmates who are able, work in the house or on the farm.

We consider the erection of the Children's Hospital during the last year, as the fulfillment of an absolute necessity.

We have examined the food furnished to the poor through the Out-of-Door Relief Department, and find it pure and wholesome. Your method of having some able bodied member of a family work for the supplies received, we believe to be the right one.

We suggest the following changes be made at the House of Correction, viz.: employes when off duty should be allowed to go to their homes for rest. A man is but little more than a prisoner when obliged to live away from his family. By making this arrangement, we believe the dormitories used by them could be

converted into a dining room for prisoners, which we consider would be better than the present method of having them sleep and eat in the same room.

As a Board we most earnestly hope that the near future will add another very much needed institution to the list. We are now referring to that of a refuge for incorrigible children. There are very many neglected children, who, if taken care of in the right time, given an education and a trade, will become good men and women.

Many of our best citizens have no idea how children are neglected in some portions of our fair city. Should they make a visit to our markets after 10 p. m., and see the number of children, mostly girls, picking up the rotten fruit and refuse from butcher-stalls, they would see the necessity of doing something at once. It sometimes happens, the temptation being placed before them and more than they can resist, that a piece of meat or cake is stolen. The policeman in discharge of his duty must arrest the child. The finished story—we have in our House of Correction and Retreats.

Most of the members of this Board are interested in various charities and philanthropies which bring them in close touch with many of these children; and in their name especially, as well as of the Board as a whole, we urge that the plan proposed by you, that of erecting a building as a "Home" or "Refuge" on land owned by the city on Lorain Street, will be begun at once.

MRS. W. J. SHEPARD, *Secretary.*

JAMES BARNETT,
GEO. T. CHAPMAN,
E. J. BLANDIN,
MRS. D. LESLIE,
MRS. S. JOSEPH,

*Members Cuyahoga County
Visiting Committee.*

DIVISION OF INFIRMARY.

W. K. RICKSECKER.....Superintendent.

E. E. BATT.....Bookkeeper.

Report of Superintendent.

THE HON. W. J. AKERS,

Director of Charities and Correction,

DEAR SIR:—Accompanying this I hand to you the report in detail of the Division of Infirmary, including the City Hospital and Out-Door Relief Department, for the year ending December 31st, 1897. The total expenditures of the Division for the year amounted to \$159,685.50, of which sum \$32,785.29 was for fixed charges and taxes; \$106,314.92, for supplies and \$20,585.29, for furniture and fixtures and land and buildings.

By reference to table No. 9 it will be seen that the per capita cost of maintenance supplies shows a slight increase over the year 1896. This is due in a measure to the advanced cost of all food products, notably in flour, potatoes and sugar, over the previous year. We have also added a number of conveniences and comforts for the old people, which would in itself warrant a slight increase in expense; taken as a whole, however, and including the fixed charges, the cost per capita per annum is \$1.79 less than for the year 1896. It has been my aim in the purchase of supplies to buy good, wholesome food and durable clothing at the lowest possible price.

In repairs and improvements, only such expenditures have been made as were necessary to keep the buildings in good condition, and provide for the health and comfort of the inmates; the old toilet rooms in the male department of the Infirmary had become so unsanitary as to be detrimental to health, and were replaced by an entire new system, located in a building apart from the living and sleeping rooms, and as sanitary measures other brick buildings were added for outside work. In the insane wards, new flooring was laid, and almost all that entire portion

of the building repainted. New sink and bath tubs were placed in the women's department of the Infirmary, and all portions of the building received some attention during the year.

One of the features of the year's work was the preparation of quarters for the old married couples; this has been one of the happiest improvements of the year, and the old people fully appreciate the thoughtfulness that has reunited them for the last stage on their life's journey.

Your attention is called to the tables showing the daily average population of the institution for the different years, as compared with that of 1897, by which it will be seen that the past year has been the heaviest in the history of the institution. The daily average population for the year 1897 was 753 as against 679 in 1896, the next largest year.

The condition and facilities of the City Hospital show a marked improvement over previous years. The capacity of the institution has been taxed at all times during the past year almost to its limit; 252 more patients were treated than during the previous year, and at times every bed was occupied, but it has never been found necessary to turn away a worthy applicant.

The medical and house staff and attendants have labored faithfully and diligently to accomplish the best results. I think in every way the Cleveland City Hospital will compare most favorably with any in the city, or similar institutions throughout the country.

Repairs and improvements have been made wherever needed, either to increase its facilities or add to the comforts of the patients. New sinks and closets have been put in place and all the plumbing put in repair; the heating capacity increased, new screens placed in every door and window. New woven wire mattresses substituted for the old spiral springs on the beds, and all the iron beds repainted a snow white, with brass knobs and rubber rests added thereto; all the old furniture painted in harmonious colors, and all beyond repair replaced with new; portable bath tubs for use in typhoid cases were purchased, and numerous additions made to the paraphernalia of the laboratory. There was also added to the equipment of the laundry a new sterilizer for the use of the hospital.

Taken as a whole the entire institution, both as to buildings and fixtures is in good condition of repair, and the expenditures in this direction for the coming year will be much less than during the year just closed.

Contracts were let in September, and work commenced on a building to be used as a Children's Hospital. The work is well under way, and the building will be ready for occupancy by June 1st, 1898. So far a little over \$10,000.00 has been expended, and it will require about \$16,000.00 more to put the building in readiness for occupancy. The new building will have accommodation for one hundred patients, and will fill a long felt want.

There are some permanent improvements which should be made, all of which will in the end, I think, prove a saving in the operating expenses of the institution.

An electric light plant should be installed without delay. During the spring, fall and winter months the gas bill runs from \$250.00 to \$375.00 per month, and when the new Children's Hospital is in operation it is safe to say, at least one-third more will be added to that amount. Electricity is much safer, cleaner and more healthful than gas, and I would sincerely like to see it substituted for the present system.

Another large item of expense is the cost of transportation of coal from the railroad to the Infirmary: I would suggest that a switch be built from the C. L. & W. Railroad, which crosses the lower part of the Infirmary property to the foot of the hill, and in addition to this the hill should be paved with refuse stone. This would save the use and care of one team.

The year of 1897 was a particularly hard one for the Outdoor Relief Department. During the early winter months an unusual number of applications for relief was received, and on account of the lack of employment in the city during the summer, it was necessary to continue much of the relief a greater portion of the year. Over 7,500 cases were investigated, and supplies amounting in value to over \$29,000.00 were distributed. Ten thousand days' labor was received in exchange for assistance rendered. The labor thus received was distributed among the Cemeteries, Street Department and Infirmary. Those at the Infirmary were employed in building a sewer for the Children's Hospital, and sawing into fire wood the old planks from off the

Viaducts; this wood yard has been the means of saving the city a great deal of money during the short time it has been in operation; many hundred loads of wood have been sawed up and burned in place of coal, and it has kept away a large number of unworthy applicants, who have strong objections to performing any kind of labor.

During the past year the Board of County Visitors has visited and inspected all the different institutions in the division. In this connection it has occurred to me how little is really known by the citizens at large of the extent and manner in which these places are operated. I would be very glad if more interest in their workings was manifested by the public.

Visitors are always welcome on the visiting days, and the entire institution is open for their inspection.

I wish to express to you my thanks for the generous aid and advice you have given me, and to acknowledge the valuable assistance rendered by the Steward of the Infirmary, his estimable wife, and the Superintendent of the Hospital, as well as by all the employes.

Respectfully,

W. K. RICKSECKER,

Superintendent Division of Infirmary.

TABLE NO. 1.

RECEIPTS AND EXPENDITURES FOR THE YEAR
1897.

RECEIPTS.		
Cash on hand January 1st, 1897.. .. .	\$ 45,610 94	
Received from Dow Tax.....	116,555 35	
" " Cigarette Tax.....	1,181 98	
" " Sale of Land	6,078 00	
" " Cuyahoga County, for Board of Poor.....	4,578 74	
" " Board of Non-resident Poor.....	3,790 55	
" " Sale of Produce	695 51	
" for Transportation.....	1,330 58	
" " Burials	1,267 50	
Total to be accounted for....		\$181,089 15
EXPENDITURES.		
For Supervision and Attendance	\$ 26,594 79	
" Hospital and Infirmary Furniture.....	2,280 86	
" Implements	217 50	
" Horses, Wagons, Harness, etc	72 35	
" Office Supplies and Stationery	433 93	
" Hospital and Infirmary Supplies.....	63,397 20	
" Farm Supplies	338 78	
" Care of Horses, Repair of Wagons, etc.....	621 27	
" Out-door Relief—Supplies.....	29,803 14	
" " " Transportation	2,703 14	
" " " Burials.....	2,326 00	
" Repairs.....	6,451 23	
" Contingent.....	159 95	
" Land.....	5,000 00	
" Buildings	13,014 58	
" Grading, Paving, Sewering, etc.....	6,190 50	
Total Expenditures.....		\$159,685 50
Cash on hand December 31st, 1897.....	21,403 65	\$181,089 15

TABLE NO. 2.

ASSETS AND LIABILITIES FOR THE YEAR 1897.

ASSETS.	
Land and Buildings on Scranton and Jennings Aves., comprising City Infirmary and Hospital	\$642,736 58
Furniture and Fixtures in Institution.....	26,139 92
Tools and Implements.....	884 95
Supplies on Hand.....	3,666 25
Amount due from Cuyahoga County for Board and Care of Incurable Insane Patients	68,800 79
Amount due from Sundry Individuals for Board and Care.....	2,104 94
Cash in hand of City Treasurer.....	24,319 43
Total	\$768,682 86
LIABILITIES.	
Amount due Division of Cemeteries, Account Exchange of Land.....	\$ 15,000 00
Excess of Assets over Liabilities.....	\$753,682 86

TABLE No. 3.
OUT-DOOR RELIEF.
EXPENDITURES.

Salaries of Investigators and Store-keepers and Coal Weighers.....	\$ 4,940 50
Paid for coal, 6,836 tons.....	11,621 20
Paid for shoes, 4111 pairs.....	3,905 45
Paid for groceries and other supplies.....	14,276 49
Paid for burials and interments, 366 orders.....	2,828 00
Paid for transportation, 947 orders	2,783 42
Total amount expended.....	\$39,853 06
Value of goods on hand in storeroom.....	\$228 68

TABLE No. 4.
OUT-DOOR RELIEF.
AMOUNT EXPENDED DURING THE YEAR 1897
FOR SUPPLIES.

MONTH.	AMOUNT.
January	\$ 1,589 42
February	6,584 57
March	7,145 70
April	4,504 46
May	1,148 07
June.....	553 25
July	627 20
August	830 67
September.....	786 44
October... ..	733 74
November.....	1,133 08
December	4,076 54
Total	\$29,808 14

TABLE NO. 5.
OUT-DOOR RELIEF.
NUMBER OF FAMILIES RELIEVED DURING 1896
AND 1897.

	1896	1897
Married.....	1,277	1,500
Widows.....	710	823
Widowers.....	33	30
Single	63	49
Grass Widows.....	172	150
Children included in above families.....	5,857	7,587
Total	9,389	10,139

Increase in number relieved during 1897—750.

TABLE NO. 6.

OUT-DOOR RELIEF.

SUPPLIES ISSUED DURING THE YEARS 1896 AND 1897.

	1896	1897
Flour.....	261,628 pounds.	317,662 pounds.
Corn Meal.....	3,507 "	6,042 "
Peas.....	9,979 "	12,632 "
Beans.....	24,768 "	29,014 "
Tea.....	7,848 "	7,793 "
Coffee.....	10,234 "	10,565 "
Rice.....	21,509 "	25,322 "
Oat Meal.....	8,793 "	16,191 "
Sugar.....	25,491 "	23,531 "
Barley.....	6,687 "	9,976 "
Soap.....	16,159 "	11,762 "
Total.....	396,603 pounds.	498,735 pounds.

	1896	1897
Number of issues of groceries.....	17,626	22,944
Number of packages.....	143,400	105,756
Average number per day	57½	74½

TABLE NO. 7.

OUT-DOOR RELIEF.

NUMBER OF ORDERS ISSUED DURING THE YEARS
1896 AND 1897.

	1896	1897
Number of tons of coal delivered.....	4,825	6,836
Number of railroad orders.....	881	947
Number of burial and grave orders.....	366	431
Number of work orders issued.....	4,002	9,441
Number of infirmary and hospital permits.....	952	965
Number of pairs of shoes	2,912	4,111
Number of investigations made.....	5,927	7,188
Total	19,865	29,919

TABLE No. 8.

OUT-DOOR RELIEF.

NATIVITY OF FAMILIES RELIEVED DURING THE
YEAR OF 1897.

Austria	50
France.....	4
Switzerland.....	20
Saxony.....	1
England.....	132
Ireland.....	492
United States.....	647
Canada.....	66
Sweden.....	7
Holland.....	13
Poland.....	178
Bohemia.....	184
Norway.....	2
Arabia.....	1
Italy.....	42
Hungary.....	43
Wales.....	22
Denmark.....	1
Slavonia.....	10
Scotland.....	13
Russia.....	18
Germany.....	599
Syria.....	4
Isle of Man..	1
Prussia.....	2
Total.....	2,552

TABLE No. 9.
COMPARATIVE TABLE OF COST OF MAINTENANCE.
1896 AND 1897.

1896.	
Average daily population.....	679
Total cost of maintenance supplies for year.....	\$58,054 64
Fixed charges (salaries and attendance).....	21,329 06
Total cost.....	\$79,383 70
Average per capita cost of maintenance per annum.....	\$ 85 50
“ “ “ “ and attendance per annum	116 91
1897.	
Average daily population.....	753
Total cost of maintenance supplies for year.....	\$65,031 41
Fixed charges (salaries and attendance).....	21,654 29
Total cost.....	\$86,685 70
Average per capita cost of maintenance per annum	\$ 86 36
“ “ “ “ and attendance per annum.....	115 12
Decrease in per capita cost per annum for 1897.....	\$ 1 79

TABLE No. 10.
INVENTORY OF STORE³ROOMS.

Dry goods, clothing, etc.....	\$ 1,794 38
Groceries, provisions, etc.....	828 87
Drugs and medicines at Hospital.....	814 32
Total	\$ 3,437 57

TABLE NO. 11.

MISCELLANEOUS EXPENDITURES FOR 1897.

For new furniture, carpets and curtains for Hospital and Infirmary.....	\$ 919 35
“ door and window screens for Hospital.....	129 80
“ two portable bath tubs for Hospital.....	90 00
“ four galvanized clothes boxes for Hospital	64 00
“ plumbing for new sinks, etc., for Hospital	268 69
“ mason, carpenter work and material, new closets for Infirmary.....	465 32
“ plumbing for new closets for Infirmary.....	430 00
“ two sets of wash stands and placing same for Infirmary	235 95
“ plastering, etc., for new apartments for married couples for Infirmary.....	116 60
“ two new steam radiators for Hospital	19 20
“ lumber and laying new floor in male insane ward for Infirmary.....	298 64
“ linoleum for Infirmary.....	148 54
“ one binder and truck for Infirmary.....	127 40
“ one sterilizer for Laundry for Hospital.....	325 00
“ one Eureka boiler cleaner.....	40 00
“ labor and material for new Garbage House.....	55 00
“ steam kettles for new Garbage House.....	125 00
“ repairs to roofing, Hospital and Infirmary.....	396 19
“ repairs to tinning and spouting, Hospital and Infirmary.....	459 84
“ paint and painters for Hospital and Infirmary.....	922 05
“ repairs incident to same.....	272 28
Total	\$ 6,108 25

TABLE No. 12.
EXTRAORDINARY EXPENDITURES FOR THE
YEAR 1897.

Partial payment to Cemetery Department for land (Pest House Farm).....	\$ 5,000 00
Paid on account of construction of Children's Hospital.....	10,589 50
Paid on account of Smoke Consumers.....	2,425 00
Paid on account of paving Scranton Avenue.....	6,190 50
Total	<u>\$24,205 00</u>

TABLE NO. 13.

FARMER'S REPORT.

VALUE OF PRODUCE OF FARM.

1212 bushels Oats @ 27c per bushel.....	\$ 327 24
300 bushels Corn @ 30c per bushel.....	90 00
30 tons Hay @ \$10.00 per ton.....	300 00
22 tons Straw @ \$7.00 per ton.....	154 00
300 bushels Early Potatoes @ 70c per bushel....	210 00
1036 bushels Late Potatoes @ 60c per bushel.....	621 60
210 bushels Onions @ 60c per bushel.....	126 00
Total.....	<hr/> \$1,828 84
6,740 heads Early Cabbage @ 3½c.....	235 90
10,000 heads Late Cabbage @ 2½c.....	250 00
313 bushels Tomatoes @ 40c.....	123 50
Total.....	<hr/> \$2,438 24
Squash, Turnips, Celery, Asparagus, Peas, Beans, Beets, etc.....	1,565 43
Total Value of Farm Produce.....	<hr/> \$4,003 67
Value of Produce of Greenhouse Plants.....	1,291 00
Value of Canned Goods.....	181 00
Value of Live Stock, Hogs, Pigs, raised and sold during 1897.....	762 00
Total.....	<hr/> \$6,237 67
600 tons Ice @ \$1.00 per ton.....	\$600 00

TABLE No. 14.

LIVE STOCK REPORT FOR THE YEAR 1897.

70 Breeding Sows @ \$5.00.....	\$ 350 00
56 Fattening Pigs @ \$5.00.....	280 00
2 Boars @ \$5.00.....	10 00
1 Horse @ \$150.00.....	150 00
2 Horses @ \$50.00.....	100 00
4 Horses @ \$75.00.....	300 00
1 Horse @ \$25.00.....	25 00
	<hr/>
Total.....	\$1,215 00

TABLE No. 15.

MISCELLANEOUS REPORTS.

BAKER.	
No. loaves of bread baked during the year 1897	104,273
No. dozen of biscuits baked during the year 1897.....	1,943
No. loaves ginger bread baked during the year 1897.....	5,925
SEAMSTRESS.	
No. pieces made by seamstress and assistants during the year 1897.....	9,791

TABLE No. 16,
INMATES—HOW EMPLOYED.

MIDDLE DEPARTMENT—INDIGENT MALES.

At assisting firemen	2
“ blacksmith shop.....	2
“ bakery	2
“ butcher shop.....	1
“ barber shop and bath rooms.....	7
“ carrying meals to female department.....	2
“ caring for grounds and lawns of institution	8
“ caring for basement of institution.....	7
“ caring for water tanks and closets	2
“ cleaning halls and offices of institution.....	12
“ carpentering	2
“ caring for sleeping and living rooms.....	20
“ caring for disabled and infirm inmates.....	3
“ dining-room, waiters.....	17
“ greenhouse.....	1
“ gardening.....	2
“ hospital	20
“ hoisting ashes and caring for fires	3
“ laundry	18
“ light chores	63
“ milk and butter-room.....	2
“ main kitchen, as meat cutters.....	4
“ main kitchen, preparing food.....	6
“ main kitchen, general work.....	3
“ officers' kitchen, general work	3
“ painting	3
“ swill-house.....	1
“ shoemaking.....	2
“ tailoring	1
“ teaming.....	3
“ window cleaning.....	2
“ wood yard.....	6
<hr/>	
Total number employed	230
Number inmates not employed, disabled.....	48
<hr/>	
Total	278

TABLE NO. 16.—Continued.

MIDDLE DEPARTMENT—INDIGENT FEMALES.

Cleaning.....	35
Dining room.....	7
Laundry.....	4
Sewing and mending.....	35
Number inmates unable to perform any labor.....	38
Total.....	92

MALE INSANE DEPARTMENT.

Number work on farm.....	15
Number work in boiler house.....	3
Number work in bakery.....	2
Number work in garden.....	1
Number waiters in dining-room.....	18
Number sweeping and making beds.....	18
Number cleaning windows.....	3
Number painting.....	2
Number work, trusty messengers.....	2
Total number employed.....	67
Total number of patients unable to perform any labor.....	98
Total.....	165

TABLE No. 16.—Concluded.

FEMALE INSANE DEPARTMENT.

Number at work in wards.....	26
Number at work in laundry.....	8
Number at work in dining-rooms	6
Number at work, sewing in wards	6
Number at work in kitchen.....	2
Number at work in middle department.....	2
Number at work, sewing in room	1
Number at work as trusty messengers.....	2
Number unable to perform any labor	79
Total	132

TABLE No. 17.

ANNUAL REPORT
AND MONTHLY REPORT OF INMATES FOR 1897.

On Hand 1897.	Middle Dept.		Insane.		Hospital.		No. Males.	No. Females.	Total.
	Male.	Fem.	Male.	Fem.	Male.	Fem.			
January 1.....	250	67	141	121	78	54	469	242	711
Received.....	18	9	4	4	43	35	65	48	113
Births.....						3		3	3
Discharged.....	8		2	8	26	19	36	27	63
Deaths.....					3	7	3	7	10
February 1.....	260	76	143	117	92	66	495	259	754
Received....	13	1	5	2	40	29	58	32	90
Births.....						1		1	1
Discharged.....	11	2	5		40	34	66	36	92
Deaths.....					9	3	9	3	12
March 1.....	262	75	143	119	83	59	488	253	741
Received.....	9	9	18	12	33	23	60	44	104
Births.....						3		3	3
Discharged.....	22	2	5	2	27	21	54	25	79
Deaths.....					6	4	6	4	10
April 1.....	249	82	156	129	80	60	488	271	759
Received.....	25	6	8	2	45	28	78	36	114
Births.....						3		3	3
Discharged.....	27	5	3	3	43	29	73	37	110
Deaths.....					11	1	11	1	12
May 1.....	247	83	161	128	74	61	482	272	754
Received.....	14	3	7	4	50	39	71	46	117
Births.....						2		2	2
Discharged.....	33	5	3	3	43	27	79	35	114
Deaths.....					7	7	7	7	14
June 1.....	228	81	165	129	74	68	467	278	745
Received.....	13	4	6	7	55	30	74	41	125
Births.....						2		2	2
Discharged.....	19	10	5	2	36	33	60	45	105
Deaths.....	1				10	6	11	6	17

DIVISION OF INFIRMARY.

TABLE No. 17.—Concluded.

ANNUAL REPORT
AND MONTHLY REPORT OF INMATES FOR 1897.

On Hand 1897.	Middle Dept.		Insane.		Hospital.		No. Males.	No. Females.	Total.
	Male.	Fem.	Male.	Fem.	Male.	Fem.			
July 1.....	221	75	166	134	83	61	470	270	740
Received.....	24	10	6	10	56	25	86	45	131
Births.....					2	2	2	2	4
Discharged.....	24	2	6	7	55	29	85	38	123
Deaths.....		1	1		6	3	7	4	11
August 1.....	221	82	165	137	80	56	466	275	741
Received.....	24	8	5	6	55	24	84	38	122
Births.....					2	5	2	5	7
Discharged.....	13	4	5	2	45	22	63	28	91
Deaths.....					16	1	16	1	17
September 1.....	232	86	165	141	76	62	473	288	762
Received.....	12	10	6	2	55	33	73	45	118
Births.....					1	2	1	2	3
Discharged.....	15	5	7	3	39	34	61	42	103
Deaths.....					14	1	14	1	15
October 1.....	229	91	164	140	79	62	472	293	765
Received.....	18	5	2	4	40	28	60	37	97
Births.....									
Discharged.....	7	6	2	3	46	31	55	40	95
Deaths.....					11	7	11	7	18
November 1.....	240	90	164	141	62	52	466	283	749
Received.....	22	4	4	1	49	39	75	44	119
Births.....									
Discharged.....	16	9	4	4	30	20	50	33	83
Deaths.....	1			1	7	5	8	6	14
December 1.....	245	85	164	137	74	66	483	288	771
Received.....	21	2	4	1	52	41	77	44	121
Births.....									
Discharged.....	8	3	4	4	32	29	44	36	80
Deaths.....				1	8	11	8	12	20

TABLE NO. 18.
NUMBER RECEIVED DURING THE YEAR OF 1897
BY MONTHS.

Month.	Males.	Females.	Total.
January	65	48	113
February.....	58	32	90
March.....	60	44	104
April.....	78	36	114
May.....	71	46	117
June.....	74	41	115
July.....	86	45	131
August	84	38	122
September.....	73	45	118
October.....	60	37	97
November.....	75	44	119
December.....	77	44	121
Total.....	861	500	1,361

TABLE NO. 19.

NUMBER OF BIRTHS DURING THE YEAR OF 1897
BY MONTHS.

Month.	Males.	Females.	Total.
January		3	3
February		1	1
March		3	3
April		3	3
May		2	2
June.....		2	2
July	2	2	4
August	2	5	7
September.....	1	2	3
October.....			
November.....			
December.....			
Total	5	23	28

TABLE NO. 20.
NUMBER OF DEATHS DURING THE YEAR OF 1897
BY MONTHS.

Month.	Males.	Females.	Total.
January.....	3	7	10
February.....	9	3	12
March.....	6	4	10
April.....	11	1	12
May.....	7	7	14
June.....	11	6	17
July.....	7	4	11
August.....	16	1	17
September.....	14	1	15
October.....	11	7	18
November.....	8	6	14
December.....	8	12	20
Total.....	111	59	170

TABLE No. 21.

NUMBER DISCHARGED DURING THE YEAR OF 1897
BY MONTHS.

Month.	Males	Females.	Total.
January	36	27	63
February	56	36	92
March	54	25	79
April	73	37	110
May	79	35	114
June	60	45	105
July	85	38	123
August	63	28	91
September	61	42	103
October	55	40	95
November	50	33	83
December	44	36	80
Total	716	422	1,138

TABLE NO. 22.
NATIONALITIES.

Nation.	Insane.		Hospital.		Middle House.		Total.
	Male.	Female.	Male.	Female.	Male.	Female.	
United States.....	43	22	152	119	58	7	401
Germany	54	33	108	85	45	5	330
England	2	2	35	7	4	.....	50
Scotland.....	1	1	16	8	1	2	29
Bohemia	9	7	22	11	3	2	54
Sweden	4	3	11	.....	.....	.....	18
Wales.....	.....	4	6	.....	.....	.....	10
Hungary.....	.....	5	14	3	.....	.....	22
Austria.....	.....	1	.....	.....	.....	.....	1
France.....	.....	2	3	.....	.....	.....	6
Russia.....	.....	.....	.....	.....	.....	.....	.....
Holland	3	2	.....	1	.....	.....	6
Canada .....	.....	1	.....	.....	.....	.....	1
Ireland	42	38	133	92	143	70	518
Switzerland.....	2	5	.....	.....	.....	.....	7
Poland.....	.....	4	9	.....	.....	.....	13
Denmark .....	.....	.....	.....	.....	.....	.....	.....
Italy.....	.....	.....	7	.....	.....	.....	7
Arabia .....	.....	.....	3	.....	1	.....	4
Africa.....	1	4	5	2	4	.....	16
Spain.....	3	.....	.....	.....	.....	.....	3
Total	164	134	524	328	260	86	1,496

TABLE No. 23.

DAILY AVERAGES FOR EACH MONTH FOR THE YEAR 1897.

Month.	Insane.		Hospital.		Middle Department.		Total.	Daily . Average.
	Male.	Female.	Male.	Female.	Male.	Female.		
January.....	4,433	3,659	2,671	1,834	7,779	2,244	22,620	726
February.....	4,010	3,323	2,510	1,762	7,353	2,112	21,070	752
March.....	4,489	3,726	2,453	1,790	7,972	2,411	22,841	736
April	4,711	3,839	2,577	1,818	7,425	2,454	22,874	762
May	5,060	3,992	2,415	2,187	7,328	2,610	23,592	761
June.....	4,925	3,969	2,426	1,970	6,776	2,367	22,433	747
July.....	5,119	4,254	2,505	1,813	6,943	2,449	23,093	744
August	5,114	4,146	2,371	1,748	7,116	2,614	23,109	744
September.....	4,927	4,196	2,479	1,849	6,870	2,617	22,937	764
October.....	5,080	4,358	2,111	1,745	7,236	2,784	22,314	752
November	4,883	4,192	2,109	1,947	7,248	2,570	22,949	764
December.....	5,077	4,179	2,345	2,056	7,877	2,635	24,169	779
Total	57,838	47,882	26,572	22,519	87,923	29,867	275,001	

Daily average for the year 1897..... 753
Daily average for the year 1896..... 679
Increase 1897 over 1896..... 74

TABLE NO. 24.
DAILY AVERAGES, MONTHLY AND YEARLY TOTALS.

1891.								
	Insane.		Hospital.		Middle.		Total.	Increase.
	Male.	Female.	Male.	Female.	Male.	Female.		
Totals for year.....	48,491	47,117	22,118	17,906	43,066	19,815	198,535	21,824
Daily averages..	133	129	61	49	188	54	543	
1892.								
Totals for year.....	50,815	48,842	22,956	16,759	47,934	19,250	206,586	8,051
Daily averages.....	139	133	62	45	131	52	564	
1893.								
Totals for year.....	44,743	43,620	23,512	19,096	61,563	19,699	212,233	5,647
Daily averages.....	122	119	64	52	168	53	581	
1894.								
Totals for year.....	43,666	42,746	28,006	21,713	77,950	21,408	235,519	23,286
Daily averages.....	119	117	76	59	213	58	645	

TABLE No. 24.—Concluded.
DAILY AVERAGES, MONTHLY AND YEARLY TOTALS.
1895.

	Insane.		Hospital.		Middle.		Total.	Increase.
	Male.	Female.	Male.	Female.	Male.	Female.		
Totals for year.....	50,765	43,549	23,887	21,744	75,992	21,788	239,844	4,325
Daily averages.....	139	119	65	60	208	60	652	
1896.								
Totals for year.....	52,732	43,069	27,243	19,339	80,602	24,777	247,860	8,016
Daily averages.....	144	118	74	53	220	70	679	
1897.								
Totals for year.....	57,838	47,882	28,972	22,519	87,923	29,867	275,001	27,141
Daily averages.....	158	131	79	62	241	82	753	74

TABLE NO. 25.
RECAPITULATION.

	Males.	Females.	Total.
On hand January 1st, 1897.....	469	242	.....
Received during year.....	861	500	.....
Births during year.....	5	23	.....
Total to be accounted for.....	1,335	765	2,100
Discharged during year.....	716	422	.....
Deaths during year.....	111	59	.....
On hand January 1st, 1898.....	508	284	.....
Total	1,335	765	2,100

TABLE No. 26.
AMBULANCE RUNS FOR 1897.

MONTHS.	RUNS.
January	25
February.....	29
March	29
April.....	35
May	33
June.....	33
July	36
August	30
September.....	25
October.....	30
November.....	35
December.....	31
Total runs.....	371

Average run 6 miles.

CLEVELAND CITY HOSPITAL.

DR. C. A. HAMANN, President. DR. S. W. KELLEY, Secretary.

DR. G. B. CASE, Vice-President.

MEDICAL STAFF.

CONSULTANTS—SURGEONS.

Dr. C. B. Parker.....425 Euclid Ave.
 Dr. J. K. Sanders.....176 Euclid Ave.
 Dr. W. T. Miller.....999 E. Madison Ave.
 Dr. D. P. Allen 278 Prospect St.
 Dr. N. S. Scott 529 Prospect St.
 Dr. F. E. Bunts.....275 Prospect St.

PHYSICIANS.

Dr. J. H. Lowman.....441 Prospect St.
 Dr. S. W. Kelley.....1150 Superior St.
 Dr. C. F. Dutton122 Euclid Ave.
 Dr. J. E. Darby.....850 Doan St.

OBSTETRICIANS.

Dr. H. W. Rogers.....10 Vestry St.
 Dr. H. H. Powell.....467 Prospect St.
 Dr. J. Perrier1014 Willson Ave.
 Dr. D. S. Hanson.....1419 Broadway.

GYNECOLOGISTS.

Dr. M. Rosenwasser722 Woodland Ave.
 Dr. W. H. Humiston.....122 Euclid Ave.

DIVISION OF INFIRMARY.

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OPHTHALMOLOGISTS.

Dr. A. R. Baker.....122 Euclid Ave.
Dr. H. G. Sherman.....29 Euclid Ave.
Dr. W. E. Bruner.....512 New England Bldg.

DERMATOLOGISTS.

Dr. W. T. Corlett.....1553 Euclid Ave.
Dr. G. B. Case.....Kendall Bldg.

NEUROLOGISTS.

Dr. H. S. Upson.....341 Prospect St.
Dr. E. G. Carpenter.....New England Bldg.

VISITING STAFF.

Dr. G. W. Crile.....275 Prospect St.
Dr. G. D. Upson.....Hickox Bldg.
Dr. A. F. Spurney.....289 Forest St.
Dr. C. A. Hamann....., 282 Prospect St.
Dr. J. F. Hobson.....429 Prospect St.
Dr. C. F. Hoover.....282 Prospect St.

PATHOLOGISTS.

Dr. W. T. Howard, Jr.....88 Dorchester Ave.
Dr. A. P. Olmacher.....Gallipolis, O.

HOUSE STAFF.

Dr. W. B. Laffer.....House Physician.
Dr. Chas. H. Tanner.....First Assistant.
Dr. A. S. Maschke.....Second Assistant.
Dr. J. M. Firmin.....Third Assistant.

Miss C. Kirkpatrick.....Superintendent of Hospital.

Report of the Medical Staff of the City Hospital.

MR. W. J. AKERS,

Director Charities and Correction:

DEAR SIR:—We here present to you the Seventh Annual Report of the Medical Staff of the City Hospital. The accompanying tables give numerous data concerning the work performed during the year in this institution.

Among the other figures it will be observed that the number of patients cared for is 1094. This is an increase of 252 patients over the previous year, and yet we feel safe in asserting that they have been better cared for than ever before.

The Department is to be congratulated upon a great improvement in the furnishing and general care of the wards and rooms, also in the nursing.

The work of the House Staff, excepting when inconvenienced by resignations of members before the expiration of their terms, has proceeded smoothly and efficiently. Each year we note improvement in the laboratory work and increased interest in their duties manifested by the resident staff.

The work of the laboratory has far outgrown its present accommodations. No modern hospital is complete without adequate facilities for making the microscopical, chemical and bacteriological examinations and tests which medical science is now able to employ in the detection and cure of disease. Inasmuch as a morgue is also an inevitable necessity in connection with an institution of this kind, we desire to recommend that a structure or structures be erected suitable for the purposes of morgue and laboratory.

The progress made in erecting a building for a children's department meets the approval of the staff; and there can be no

doubt that when completed and properly equipped a great amount of much needed work can be accomplished.

It is earnestly hoped that the department will not stay its hand in the good work, until there are also erected and equipped suitable separate buildings for contagious diseases. If possible these are even more urgently needed than the children's general department; for no hospital in the city accepts contagious cases, which most often occur in homes least suited to care for them properly, or break out in institutions where many other lives are jeopardized by their presence, and in either instance it is so necessary to isolate them. Two small buildings, one for scarlatina and one for diphtheria, at a considerable distance from each other and from those now on the ground, would fulfill the most urgent requirements.

Among the minor and yet important needs of the institution are a fireproof safe in the office, in which the registers should be kept; and a fireproof vault in the basement for the preservation of the records of cases.

There have been but few changes in the membership of the staff during the year. The officers elected at the annual meeting on June 23d were: Dr. C. A. Hamann, president; Dr. G. B. Case, vice president. The secretary was re-elected.

Dr. H. J. Lee resigned his position as obstetrician to the hospital, and Dr. D. S. Hanson was appointed in his stead. Dr. Lee had been also a member of the Examination Committee, and this place was filled by the election of Dr. E. G. Carpenter.

The death of Dr. J. F. Armstrong created another vacancy in the Examination Committee, which was supplied by the election of Dr. G. D. Upson.

We take this opportunity of conveying to you, and placing upon record the unanimous sentiment of this staff that your administration in this institution has exhibited such a knowledge of the functions and the needs of a hospital of this character, and such an interest and energy in promoting its welfare as have won the hearty approbation of the medical staff.

Respectfully yours,

S. W. KELLEY,

Secretary.

Nationality.	AGE AND SEX.											
	Under 10		10 to 20		20 to 30		30 to 40		40 to 50		50 to 60	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Arabia.....	1	1	1	3	1	2	.....	.....	.....
Assyria.....	1	1	.....	.....	2	.....	.....
Austria.....	3	5	.....	1	.....	1	.....
Bohemia.....	2	2	1	2	1	2	.....	1	2
Brasil.....	1	.....	.....	.....	.....	.....
Canada.....	1	.....	1	3	3	2	6	1	4	.....
China.....	1	.....	.....	.....	.....	.....
Denmark.....	1	1	.....	1	.....
England.....	1	1	4	6	6	5	6	6	8	1
France.....	1	1	.....	.....	.....	2	.....
Germany.....	3	14	10	15	8	15	11	11	2
Greece.....	1	1	.....	.....	1	.....	.....
Holland.....	1	1	.....
Hungary.....	3	2	2	2	7	.....	.....	.....
Ireland.....	8	3	7	10	21	3	15	8
Isle of Man.....	1	1	.....	.....	.....	.....
Italy.....	3	1	3	.....	2	.....	1	.....

AGE AND SEX.

Nationality.	Under 10		10 to 20		20 to 30		30 to 40		40 to 50		50 to 60		60 to 70		70 to 80		Over 80	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Lithuania.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Norway.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Poland.....	1	3	1	2	1	2	1	.....	.....	.....	.....	.....	.....	.....	.....
Russia.....	1	.....	2	2	1	4	1	.....	1	1	.....	.....	.....	.....	.....
Scotland.....	1	.....	.....	1	1	.....	2	2	2	.....	.....	4	.....	.....
Slavonia.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
Spain.....	1	.....	.....	.....	.....	.....	.....	.....
Sweden.....	2	1	.....	2	1	1	.....	.....	.....	.....	.....	.....	.....
Switzerland.....	1	.....	.....	.....	2	.....	1	.....	.....	.....	.....	.....
United States..	16	22	23	26	53	52	50	42	42	20	10	10	17	5	14	3	5	1
Wales.....	1	1	3	1	1	.....	.....	.....	.....

DIVISION OF INFIRMARY.

OCCUPATIONS.

MALES.

Agents.....	4	Hucksters	3
Actors.....	2	Ice peddlers	1
Butchers.....	9	Infants	18
Barbers.....	6	Insane	7
Blacksmiths.....	6	Ironworkers	1
Bartenders	13	Laborers.....	177
Boilermakers.....	3	Laundrymen.....	1
Bakers.....	1	Lawyers ...	1
Bill boys.....	1	Lime burners.....	1
Bookkeepers.....	1	Longshoremen.....	2
Brassworker.....	1	Machinists.....	18
Broomworker	1	Miners.....	3
Builders.....	1	Merchants.....	2
Carpenters.....	11	Moulders	10
Cabinetmaker	4	Musicians	5
Cigarmakers.....	5	Nurses.....	1
Clerks	7	Painters.....	18
Coachmen	2	Peddlers.....	8
Confectioners.	2	Pilots.....	1
Contractors.....	2	Plasterers.....	1
Cooks.....	11	Plumbers.....	2
Coopers.....	2	Printers	3
Drummers.....	1	Porters	3
Engineers.....	1	Puddlers	3
Farmers	9	Quarrymen	1
Filers.....	1	Railroaders.....	6
Firemen.....	2	Rollers (iron).....	4
Fishermen	1	Roofers.....	2
Florists.....	1	Sailors.....	11
Gardeners.....	2	Salesmen.....	6
Glaziers	1	Saloonkeepers	1
Grinders	1	School boys.....	4
Horsedoctors	4	Ship carpenters.....	2
Hostlers	4	Shoemakers.....	8
Hotel keepers.....	1	Soldiers.....	2

OCCUPATIONS.—Concluded.

MALES.

Stonecutters.....	6	Telegraph operators.....	1
Students.....	3	Wagonmakers.....	1
Tailors..	3	Waiters	6
Tanners	1	Watchmen.....	1
Teachers	1	Watchmakers.....	1
Teamsters.....	12	No occupation.....	37

FEMALES.

Actresses	1	Laundresses.....	4
Agents.....	2	Midwives.....	1
Barmaids.....	1	Milliners	1
Clerks	2	Nurses.....	3
Cloakmakers.....	1	Peddlers	3
Cooks.....	9	School girls.....	3
Dressmakers	6	Seamstresses.....	8
Hairdressers.....	1	Servants... ..	70
Harlots.....	23	Teachers	1
Housewives	187	Waitresses.....	4
Infants.....	16	Washwomen... ..	2
Insane.....	14	No occupation.....	28

MEDICAL.

Diagnosis.	On hand Jan. 1, 1897.		Admitted.		Recovered.	Improved.	Unimproved.	Died.	Discharged.	Transferred.	Expelled and Discharged for Misconduct.	Not Treated.	Complicating Other Diseases.	Remaining Dec. 31, 1897.	Total.
	Males.	Females.	Males.	Females.											
Abortion, Threatened.....	2	2	.....	.....	.....	2	.....	.....	.....	.....	.....	2
Abortion	6	5	.....	.....	.....	5	.....	.....	.....	.....	1	6
Abrasion of Skin.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Abrasion of Stump.....	2	.....	2	.....	.....	.....	2	.....	.....	.....	.....	.....	2
Abscess, Alveolar.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Abscess, Bunion.....	1	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
Abscess, Broad Lig.....	1	.....	.....	1	.....	.....	.....	.....	.....	1
Abscess, Hepatic.....	1	.....	.....
Abscess of Leg.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Abscess, Pelvic.....	2	1	.....	1	1	.....	.....	2	.....	.....	.....	.....	1	3
Abscess, Perineal	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Abscess, Periuethral.	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Abscess, Vulvo-vaginal.....	1	.....	.....
Actinomycosis.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
Acute Mania.....	1	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Alcoholism, Acute.....	7	2	9	.....	.....	.....	9	.....	.....	.....	.....	.....	9

MEDICAL.—Continued.

Diagnosis.	On hand Jan. 1, 1897		Admitted.		Recovered.	Improved.	Unimproved.	Died.	Discharged.	Transferred.	Expelled and Misconduct.	Not Treated.	Complicating Other Diseases.	Remaining Dec. 31, 1897.	Total.
	Males.	Females.	Males.	Females.											
Anylloid Degeneration of Viscera.....	1	.....
Anaemia.	1	.....	1	1	.....	.....	1	1	.....	.....	.....	.....	.....	2
Anaemia Primary Pernicious.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	1
Angina Pectoris Pseudo.....	1	.....	1	.....	.....	1	.....	.....	.....	.....	.....	1
Aortic Aneurism.....	3	.....	.....	1	.....	2	1	.....	.....	.....	.....	.....	1
Aortic Insufficiency.....	1	1	1	1	.....	.....	1	1	.....	.....	.....	.....	2
Appendicitis	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Arteriosclerosis.....	1	1	5	6	.....	5	.....	7	8	2	.....	.....	.....	1	13
Arthritis, Gonorrheal of Wrist.....	1	.....	1	1	1	.....	.....	2	.....	.....	.....	.....	.....	2
Arthritis, Purulent.....	1	1	.....	1	1	.....	2	.....	.....	.....	.....	.....	2
Arthritis, Rheumatoid.....	1	2	8	.....	1	4	.....	4	1	.....	.....	.....	6	.....
Arthritis, Traumatic.....	3	1	1	3	.....	.....	2	2	.....	.....	.....	.....	4
Arthritis Tubercular.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
Articular Rheumatism, Sub-Acute.....	1	.....	1	.....	.....	1	.....	.....	.....	.....	.....	1
Asthma.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	1
Aphasia	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	1

MEDICAL.—Continued.

Diagnosis.	On hand Jan. 1, 1897.		Admitted.		Recovered.	Improved.	Unimproved.	Died.	Discharged.	Transferred.	Eloped and Discharged for Misconduct.	Not Treated.	Complicating Other Diseases.	Remaining Dec. 31, 1897.	Total.
	Males.	Females.	Males.	Females.											
Asphyxia Neonatorum	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
Autointoxication, Intestinal.....	4	1	5	.....	.....	.....	3	2	.....	.....	.....	.....	5
Balanitis	1	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Basedow's Disease	1	.....	.....	1	.....	1	.....	.....	.....	.....	.....	1
Blepharitis Marginalis	1	.....	.....	1	.....	1	.....	.....	.....	1	.....	1
Bronchitis Acute	1	1	5	6	1	.....	.....	.....	5	2	.....	.....	.....	.....	7
Bubo Suppurating.....	1	.....	5	1	5	2	.....	.....	5	.....	2	.....	1	.....	7
Bubo	2	.....	2	.....	.....	.....	2	.....	.....	.....	.....	.....	2
Burn of Hand, first degree	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Carcinoma of Breast.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Carcinoma of Lymph Glands, Sub-Maxillary.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	1
Carcinoma of Liver	1	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1	2
Carcinoma of Peritoneum.....	1	.....	.....	1	.....	1	.....	.....	.....	.....	.....	1
Carcinoma of Stomach.....	1	1	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	2
Carcinoma of Uterus.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	2
Cataract Double.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1

MEDICAL.—Continued.

Diagnosis.	On hand Jan. 1, 1897.		Admitted.		Recovered.	Improved.	Unimproved.	Died.	Discharged.	Transferred.	Eloped and Discharged for Misconduct.	Not Treated.	Complicating Other Diseases.	Remaining Dec. 31, 1897.	Total.
	Males.	Females.	Admitted.												
			Males.	Females.											
Catarrhal Jaundice.....	2	.....	1	.....	.....	1	.....	1	.....	.....	.....	.....	2
Cellulitis.....	1	.....	1	.....	2	.....	.....	.....	1	1	.....	.....	.....	.....	2
Cerebral Hemorrhage.....	2	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	2
Cervix Lacerated.....	5	5	.....	.....	.....	4	1	.....	1	.....	.....	5
Chancroid of Penis.....	3	.....	1	1	.....	.....	2	.....	.....	.....	.....	1	3
Clavus.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Chlorosis.....	1	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Cirrhosis of Liver Atrophic.....	1	.....	.....	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	1
Cirrhosis Hepatic.....	2	.....	2	.....	2	.....	.....	.....	2	1	.....	2
Colic Biliary.....	4	2	2	.....	.....	4	.....	.....	.....	.....	.....	4
Colitis.....	6	1	6	1	.....	.....	2	4	1	.....	.....	.....	7
Concussion of Brain.....	1	.....	1	2	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	2
Condylomata about Anus.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Conjunctivitis.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Contusion of Chest.....	1	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Contusion of Jaw.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1

MEDICAL.—Continued.

Diagnosis.	On hand Jan. 1, 1897		Admitted.		Recovered.	Improved.	Unimproved.	Died.	Discharged.	Transferred.	Kliped and Discharged for Misconduct.	Not Treated.	Complicating Other Diseases.	Remaining Dec. 31, 1897.	Total.
	Males.	Females.	Males.	Females.											
Contusion of Leg.....	2	.....	2	.....	.....	.....	2	.....	.....	.....	.....	.....	2
Coprostasis.....	5	5	.....	.....	.....	4	1	.....	.....	.....	.....	5
Cordis Senilis.....	11	.....	.....	4	.....	7	2	2	.....	.....	.....	.....	10
Cut Throat.....	1	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Cyst of Bartholin's Gland.....	1	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Cystitis.....	3	1	3	1	.....	.....	2	2	.....	.....	.....	.....	4
Decubitus	1	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Delirium Tremens.....	9	1	9	.....	.....	.....	9	.....	.....	.....	.....	1	10
Dementia Senile.....	1	4	.....	.....	3	2	.....	1	3	.....	.....	.....	1	5
Dilated Aorta.....	1	3	.....	1	.....	1	.....	1	.....	.....	.....	2	4
Diabetes Mellitus.....	1	.....	3	2	.....	1	.....	2	2	.....	.....	.....	.....	2	4
Diphtheria	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Dislocation of Lumbar Vertebra	2	.....	.....	.....	2	.....	.....	.....	2	.....	.....	.....	2
Dysentery. Amoebic.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1
Eclampsia Gravidarum.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
Eczema of Hand.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1

MEDICAL.—Continued.

DIVISION OF INFIRMARY.															977
Diagnosis.	On hand Jan. 1, 1897.		Admitted.		Recovered.	Improved.	Unimproved.	Died.	Discharged.	Transferred.	Eloped and Discharged for Misconduct.	Not Treated.	Complicating Other Diseases.	Remaining Dec. 31, 1897.	Total.
	Males.	Females.	Males.	Females.											
Eczema of Leg.....	1	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Eczema of Thigh.....	1	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Eczema Universalis.....	1	.....	4	.....	1	3	.....	.....	3	1	.....	.....	.....	1	5
Elephantiasis of Legs.....	1	.....
Emphysema.....	1	.....	5	1	.....	3	.....	.....	3	.....	.....	.....	.....	4	7
Empyema.....	2	.....	1	.....	.....	.....	1	.....	.....	.....	1	1	2
Endometritis.....	2	.....	7	6	1	1	.....	8	.....	.....	.....	.....	1	9
Enteritis.....	2	.....	1	1	.....	.....	2	.....	.....	.....	.....	.....	2
Enuresis Nocturnal.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Epididymitis.....	7	.....	5	2	.....	.....	7	.....	.....	1	1	.....	7
Epididymitis Gonorrheal.....	2	.....	2	.....	.....	.....	2	.....	.....	.....	.....	.....	2
Epilepsy.....	2	.....	.....	1	1	.....	2	.....	.....	.....	1	.....	2
Epithelioma of Lip.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Erysipelas, Facial.....	5	4	6	2	5	1	3	1	9
Erythema Nodosum.....	1	1	1	1
Eye Rupture.....	1	1	1	1

DIVISION OF INFIRMARY.

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MEDICAL.—Continued.

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DEPARTMENT OF CHARITIES AND CORRECTION.

Diagnosis.	On hand Jan. 1, 1897.		Admitted.		Recovered.	Improved.	Unimproved.	Died.	Discharged.	Transferred.	Eloped and Discharged for Misconduct.	Not Treated.	Complicating Other Diseases.	Remaining Dec. 31, 1897.	Total.
	Males.	Females.	Males.	Females.											
Fibio-adenoma of Parotid Gland.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Fibroid of Uterus.....	4	.....	1	1	1	3	.....	.....	.....	.....	.....	4
Fecal Impaction Hepatic.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Fistula Anal.....	2	2	3	.....	.....	.....	3	.....	.....	.....	.....	1	4
Fistula Rectovaginal.....	1	.....	.....
Fistula Urethral.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Fistula Vesico-vaginal.....	1	1	.....	.....	.....	1	.....	.....	.....	1	.....	1
Fracture of Clavicle.....	3	.....	2	.....	.....	.....	1	1	.....	.....	.....	1	3
Fracture Colles.....	2	2	2	.....	.....	.....	2	.....	.....	.....	.....	2	4
Fracture of Femur.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Fracture of Femur, Ununited.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	1
Fracture of Femur, Neck.....	2	.....	1	1	.....	.....	2	.....	.....	.....	.....	.....	2
Fracture of Femur, Senile.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
Fracture of Fibula.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Fracture of Humerus.....	3	1	4	.....	.....	.....	3	1	.....	.....	1	.....	4
Fracture of Iliac Crest.....	2	2	.....	.....	.....	2	.....	.....	.....	.....	.....	2

MEDICAL.—Continued.

Diagnosis.	On hand Jan. 1, 1897.		Admitted.		Recovered.	Improved.	Unimproved.	Died.	Discharged.	Transferred.	Eloped and Discharged for Misconduct.	Not Treated.	Complicating Other Diseases.	Remaining Dec. 31, 1897.	Total.
	Males.	Females.	Males.	Females.											
Fracture of Jaw.....	1	.....	.....	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	1
Fracture of Nose.....	.....	.....	1	.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	1
Fracture of Olecranon.....	.....	.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Fracture Potts .....	.....	.....	1	1	2	.....	.....	.....	2	.....	.....	.....	.....	.....	2
Fracture of Rib.....	.....	.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Fracture of Skull.....	.....	.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Fracture of Tibia.....	.....	.....	2	.....	.....	1	.....	.....	1	.....	.....	.....	.....	1	2
Fracture of Tibia, Compound.....	.....	.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Frost Bites, Multiple.....	2	.....	.....	.....	1	1	.....	.....	2	.....	.....	.....	.....	1	2
Frozen Extremities.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Frozen Feet.....	.....	.....	1	.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	1
Gangrene of Stump.....	1	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Gangrene Senile.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1
Gastro-duodenetis.....	.....	.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Gastritis, Acute.....	1	.....	4	.....	4	1	.....	.....	5	.....	.....	.....	.....	.....	5
Gastritis, Chronic.....	.....	.....	3	.....	1	.....	.....	.....	1	.....	.....	.....	.....	2	3

DIVISION OF INFIRMARY.

MEDICAL.—Continued.

Diagnosis.	On hand Jan. 1, 1897.		Admitted.		Recovered.	Improved.	Unimproved.	Died.	Discharged.	Transferred.	Eloped and Discharged for Misconduct.	Not Treated.	Complicating Other Diseases.	Remaining Dec. 31, 1897.	Total.
	Males.	Females.	Males.	Females.											
Gastro-enteritis.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Gonorrhoea.....	1	2	4	1	1	5	1	.....	7	.....	.....	.....	.....	.....	7
Gonorrhoea, Acute.....	1	1	1	1	.....	.....	2	.....	.....	.....	.....	.....	2
Gonorrheal Ophthalmia.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	1	.....	1
Gunshot Wound of Eyeball.....	2	.....	1	.....	1	.....	2	.....	.....	.....	.....	.....	2
Gunshot Wound of Thigh.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Hallux Valgus.....	2	.....	.....	2	.....	.....	2	.....	.....	.....	.....	.....	2
Hematoma of Thigh.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Hemiplegia.....	1	1	4	3	.....	1	.....	5	2	.....	.....	.....	1	2	9
Hemiplegia, Syphilitic.....	2	.....	.....	1	1	1	1	.....	.....	.....	.....	.....	2
Hemophilia.....	1	.....	1	.....	.....	1	.....	.....	.....	.....	.....	1
Hemorrhoids	2	.....	.....	2	.....	.....	2	.....	.....	.....	.....	.....	2
Hemorrhage, Pulmonary, Fatal.....	2	.....	.....
Hemorrhage, Cerebral.....	2	1	.....	.....	.....	2	.....	.....	.....	.....	.....	1	3
Hernia, Inguinal.....	1	1	3	.....	3	.....	.....	.....	3	1	.....	.....	.....	1	5
Hernia, Inguinal, Double.....	3	.....	3	.....	.....	.....	3	.....	.....	.....	.....	.....	3

MEDICAL.—Continued.

Diagnosis.	On hand Jan. 1, 1897		Admitted.		Recovered.	Improved.	Unimproved.	Died.	Discharged.	Transferred.	Eloped and Discharged for Misconduct.	Not Treated.	Complicating Other Diseases.	Remaining Dec. 31, 1897.	Total.
	Males.	Females.	Males.	Females.											
Hernia, Strangulated.....	1	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Hernia, Ventral.....	1	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Herpes, Preputialis.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	1
Hodgkins' Disease.....	2	.....	.....	1	.....	1	1	.....	.....	.....	.....	.....	2
Hydrocele.....	3	.....	3	.....	.....	.....	3	.....	.....	.....	.....	.....	3
Hydronephrosis.....	1	.....	.....
Hysteria.....	1	3	.....	2	.....	.....	1	1	.....	.....	.....	2	4
Hypochondria.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	1
Hypoplasia of Arterial System	1	1	.....	1	.....	.....	1	.....	.....	.....	1	1	2
Impetigo Contagiosa	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Infants, Born Here.....	1	15	15	.....	.....	.....	.....	31	.....	.....	.....	.....	.....	31
Ilium, Necrosis of.....	2	.....	.....	1	1	1	.....	.....	.....	.....	.....	2
Influenza.....	2	3	5	.....	.....	.....	2	3	.....	.....	.....	.....	5
Insanity.....	1	.....	3	4	.....	1	6	1	6	.....	.....	.....	.....	1	8
Insanity, Post Traumatic....	1	.....	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	1
Insanity, Delusional.....	2	1	.....	1	.....	2	.....	.....	.....	.....	.....	2

MEDICAL.—Continued.

Diagnosis.	On hand Jan. 1, 1897		Admitted.		Recovered.	Improved.	Unimproved.	Died.	Discharged.	Transferred.	Eloped and Discharged for Misconduct.	Not Treated.	Complicating Other Diseases.	Remaining Dec. 31, 1897	Total.		
	Males.	Females.	Males.													Females.	
Irido-cyclitis.....	2	.....	1	.....	1	.....	2	.....	.....	.....	.....	.....	2		
Irido-cyclitis Syphilitic.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1		
Iritis Purulent.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	1		
Iritis Rheumatic.....	1	.....	.....
Iritis Syphilitic.....	1	2	1	1	.....	.....	2	.....	.....	.....	.....	.....	3		
Iritis Traumatic.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1		
Ivy Poisoning.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1		
Lacerated Cervix.....	1	.....	.....	1	.....	.....	.....	1	.....	.....	.....	1	.....	1	
Lacerated Perineum.....	1	.....	1	2	.....	.....	.....	2	.....	.....	.....	2	.....	2	
Larynx, Malignant Disease.....		
Leptomenigitis, Acute Purulent.....	1	1	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	2		
Locomotor Ataxia.....	1	.....	6	.....	.....	.....	4	1	4	.....	.....	.....	.....	2	7
Ludwig's Angina.....	1	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1		
Lumbago.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1		
Malaria.....	9	.....	8	.....	.....	.....	8	.....	.....	.....	.....	1	9		
Malingering.....	28	8	7	29	.....	.....	36	.....	.....	.....	.....	.....	96		

MEDICAL.—Continued.

Diagnosis.	On hand Jan. 1, 1897.		Admitted.		Recovered.	Improved.	Unimproved.	Died.	Discharged.	Transferred.	Eloped and Discharged for Misconduct.	Not Treated.	Complicating Other Diseases.	Remaining Dec. 31, 1897.	Total.
	Males.	Females.	Males.	Females.											
Masturbation.....	.....	.....	.....	1	.....	1	.....	.....	1	.....	.....	.....	.....	.....	1
Measles.....	.....	.....	.....	1	1	.....	.....	1	.....	.....	.....	.....	.....	.....	1
Meningitis Acute.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1
Meningitis Chronic.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1
Meningitis Purulent.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....
Menigocele.....	.....	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1
Mitral Insufficiency.....	2	1	.....	1	.....	2	.....	1	2	.....	.....	1	1	.....	4
Monoplegia Hysterical.....	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1	1
Myelitis Compression.....	1	.....	2	.....	.....	1	.....	.....	.....	1	.....	.....	.....	2	3
Muscular Rheumatism.....	.....	.....	2	.....	1	1	.....	.....	2	.....	.....	.....	.....	.....	2
Myelitis Syphilitic.....	.....	.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	1
Myocarditis.....	3	.....	7	1	.....	6	1	1	6	1	.....	.....	3	3	11
Nausea of Pregnancy.....	.....	.....	.....	1	.....	1	.....	.....	1	.....	.....	.....	.....	.....	1
Nephritis Acute.....	.....	.....	1	1	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	2
Nephritis Acute Parenchymatous.....	4	1	1	2	2	4
Nephritis Chronic Interstitial.....	1	4	1	2	4	2	6

DIVISION OF INFIRMARY.

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DIVISION OF INFIRMARY.

MEDICAL.—Continued.

Diagnosis.	On hand Jan. 1, 1897.		Admitted.		Recovered.	Improved.	Unimproved.	Died.	Discharged.	Transferred.	Klipped and Discharged for Misconduct.	Not Treated.	Complicating Other Diseases.	Remaining Dec. 31, 1897.	Total.
	Males.	Females.	Males.	Females.											
Neurasthenia.....	3	.....	2	1	.....	3	.....	.....	.....	.....	.....	3
Neuritis, Traumatic.....	1	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	1
Neuritis, Multiple.....	3	.....	.....	2	.....	.....	2	.....	.....	.....	.....	1	3
Neuroma of Stump.....	2	.....	2	.....	.....	.....	2	.....	.....	.....	.....	.....	2
Oedema of the Glottis.....	1	.....	.....
Onanism.....	1	.....	1	.....	.....	1	.....	.....	.....	.....	.....	1
Ophthalmia Neonatorum.....	1	.....	.....
Orochitis.....	1	.....	.....
Osteo-myelitis, Acute.....	2	.....	.....	.....	.....	2	.....	.....	.....	.....	2	.....	.....	.....	2
Osteo-myelitis, Chronic.....	2	.....	.....	1	.....	1	1	.....	2	.....	.....	.....	.....	1	3
Osteo, Media, Chronic.....	1	.....	.....	1	.....	.....	.....	.....	1	.....	.....	1
Ovaritis, Non-specific.....	1	.....	1	.....	.....	1	.....	.....	.....	.....	.....	1
Ovaritis, Specific.....	2	.....	2	.....	.....	2	.....	.....	.....	.....	.....	2
Ovary, Prolapse of.....	1	.....	.....
Pachymeningitis.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
Panophthalmitis.....	2	1	1	.....	.....	1	.....	1	.....	.....	.....	2

MEDICAL.—Continued.

Diagnosis.	On hand Jan. 1, 1897.		Admitted.		Recovered.	Improved.	Unimproved.	Died.	Discharged.	Transferred.	Eloped and Discharged for Misconduct.	Not Treated.	Complicating Other Diseases.	Remaining Dec. 31, 1897.	Total.
	Males.	Females.	Males.	Females.											
Paralysis Agitans.....	1	.....	2	.....	.....	.....	1	.....	1	.....	.....	.....	.....	2	3
Paralysis of Circumflex Traumatic.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Paralysis, Hysterical.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	1
Paralysis, Progressive Muscular.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Phimosis.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Paraphimosis.....	2	.....	2	.....	.....	.....	2	.....	.....	.....	.....	.....	2
Parotiditis.....	1	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Pelvic Peritonitis.....	2	.....	2	.....	.....	1	.....	1	.....	.....	.....	2
Pelvic Peritonitis, Gonorrheal.....	1	.....	4	1	4	.....	.....	5	.....	.....	.....	.....	.....	5
Perforation, Intestinal.....	1	.....	.....
Pericarditis.....	3	.....	.....
Perihepatitis.....	1	.....	.....
Perisplenitis.....	1	.....	.....
Peritonitis, Septic.....	1	1	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	2
Peritonitis, Tubercular.....	2	.....	.....
Periurethritis.....	1	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....
Pes Planus.....

DIVISION OF INFIRMARY.

MEDICAL.—Continued.

Diagnosis.	On hand Jan. 1, 1897.		Admitted.		Recovered.	Improved.	Unimproved.	Died.	Discharged.	Transferred.	Kliped and Discharged for Misconduct.	Not Treated.	Complicating Other Diseases.	Remaining Dec. 31, 1897.	Total.
	Males.	Females.	Males.	Females.											
Pharyngitis, Chronic.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	1	.....	1
Pleurisy.....	2	.....	2	.....	.....	.....	1	1	.....	.....	.....	.....	2
Pleurisy with Effusion.....	2	2	.....	1	1	.....	.....	2	.....	.....	.....	.....	.....	2
Pneumonia, Broncho.....	3	.....	2	.....	.....	1	2	.....	.....	.....	.....	.....	3
Pneumonia, Lobar.....	20	7	13	.....	.....	12	11	2	.....	.....	1	2	27
Potts' Disease, Dorsal.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Pregnancy.....	5	.....	35	33	.....	.....	.....	39	.....	1	.....	.....	7	40
Prolapsus Uteri.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....
Prostate, Hypertrophy of.....	1	.....	1	.....	1	.....	1	.....	1	.....	.....	1	.....	.....	2
Psoriasis.....	1	1	.....	1	.....	.....	1	.....	.....	.....	.....	1	2
Pterygium.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Puerperal Insanity.....	1	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Puerperal State.....	2	2	.....	.....	.....	2	.....	.....	.....	.....	.....	2
Pyonephrosis.....	1	.....	.....	.....	1	1	.....	.....	.....	1	.....	1
Pyosalpinx Double.....	1	.....	.....	5	6	.....	.....	.....	6	.....	.....	.....	.....	.....	6
Ranula.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	1

MEDICAL.—Continued.

Diagnosis.	On hand Jan. 1, 1897.		Admitted.		Recovered.	Improved.	Unimproved.	Died.	Discharged.	Transferred.	Eloped and Discharged for Misconduct.	Not Treated.	Complicat- ing Other Diseases.	Remaining Dec. 31, 1897.	Total.
	Males.	Females.	Males.	Females.											
Rectum, Syphilitic Stricture of.....	1	.....	4	.....	5	.....	.....	4	.....	.....	.....	.....	1	5
Retroflexed Uterus.....	1	1	.....	.....	.....	1	.....	.....	.....	3	.....	1
Rheumatism Acute Articular.....	8	7	9	2	.....	.....	11	.....	.....	.....	.....	4	15
Salpingitis.....	1	.....	.....
Salpingitis, Chronic.....	1	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Scarlatina.....	1	1	1	.....	.....	.....	2	.....	.....	.....	.....	.....	2
Sciatica.....	2	1	1	.....	.....	.....	2	.....	.....	.....	.....	.....	3
Sclerosis Multiple.....	1	.....	.....	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	1
Seminal Vesiculitis.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Senility.....	2	4	9	.....	2	4	4	4	2	.....	.....	.....	5	15
Sclerosis Multiple.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	2
Septicæmia.....	3	.....	.....	.....	3	.....	.....	.....	.....	3	.....	3
Septicemia, Puerperal.....	1	.....	.....
Septico Pyæmia.....	1	.....	.....	.....	1	.....	.....	.....	.....	1	.....	1
Septic Hand.....	1	.....	1	.....	2	.....	.....	.....	2	.....	.....	.....	.....	.....	2
Shock, Nervous.....	2	.....	2	.....	.....	.....	2	.....	.....	.....	.....	.....	2

DIVISION OF INFIRMARY.

MEDICAL.—Continued.

Diagnosis.	On hand Jan. 1, 1897.		Admitted.		Recovered.	Improved.	Unimproved.	Died.	Discharged.	Transferred.	Klipped and Discharged for Misconduct.	Not Treated.	Complicating Other Diseases.	Remaining Dec. 31, 1897.	Total.
	Males.	Females.	Males.	Females.											
Spine Bifida.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
Splenitis Interstitial.....	1	.....	.....
Sprained Ankle	4	.....	4	.....	.....	.....	4	.....	.....	.....	.....	.....	4
Spurious Pregnancy	1	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Stenosis Aortic	3	.....	.....	1	.....	2	1	.....	.....	.....	.....	.....	3
Stenosis Mitral	2	.....	2	.....	.....	1	.....	1	1	.....	.....	.....	1	3	4
Stomatitis Ulcerative.....	2	1	1	.....	.....	2	.....	.....	.....	.....	.....	2
Stricture Urethral.....	3	.....	.....	1	.....	.....	1	.....	.....	.....	.....	1	3
Subinvolution of Uterus	1	.....	1	.....	.....	1	.....	.....	.....	.....	1	1
Sunstroke	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Synechia Cordis.....	3	.....	.....	3	.....	.....	1	2	.....	.....	.....	.....	3
Synovitis of knee.....	1	.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	1
Syphilis Primary.....	2	.....	.....	.....	.....	2	.....	.....	2	.....	.....	.....	.....	.....	2
Syphilis, Secondary.....	8	7	10	.....	18	.....	.....	18	.....	.....	.....	.....	7	25
Syphilis, Tertiary.....	3	1	12	8	.....	20	2	1	23	.....	.....	.....	.....	1	24
Syphilis, Congenital	2	.....	2	.....	.....	2	.....	.....	.....	.....	.....	2

MEDICAL.—Continued.

Diagnosis.	On hand Jan. 1, 1877.		Admitted.		Recovered.	Improved.	Unimproved.	Died.	Discharged.	Transferred.	Kliped and Discharged for Miscunduct.	Not Treated.	Complicating Other Diseases.	Remaining Dec. 31, 1897.	Total.
	Males.	Females.	Males.	Females.											
Syphilis, of Retina.....	1	.....	1	.....	1	.....	.....	.....	.....	.....	.....	1
Tinea Sycosis.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	1
Tinea Tonsurans	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Thrombosis of Middle Cerebral Artery.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1
Toe, Deformity of.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Tonsillitis Follicular	2	2	4	.....	.....	.....	3	1	.....	.....	.....	.....	4
Trachoma	2	.....	.....	1	1	.....	2	.....	.....	.....	.....	.....	2
Traumatism of Eye.....	2	.....	1	1	.....	.....	2	.....	.....	.....	.....	.....	2
Tubercular Gland	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Tubercular Kidneys.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	1
Tubercular Pericarditis.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
Tubercular, Sinus of Foot.....	1	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Tuberculosis, Acute Miliary.....	2	.....	.....	.....	.....	2	.....	.....	.....	.....	1	.....	1
Tuberculosis, Incipient.....	1	.....	1	.....	.....	1	.....	.....	.....	.....	.....	1
Tuberculosis, Pulmonary.....	5	2	64	24	.....	7	16	.....	28	1	2	..	1	15	92
Tuberculosis of Shoulder.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	1

DIVISION OF INFIRMARY.

DEPARTMENT OF CHARITIES AND CORRECTION.

MEDICAL.—Continued.

Diagnosis.	On hand Jan. 1, 1897.		Admitted.		Recovered.	Improved.	Unimproved.	Died.	Discharged.	Transferred.	Relapsed and Misconduct.	Not Treated.	Complicating Other Diseases.	Remaining Dec. 31, 1897.	Total.
	Males.	Females.	Males.	Females.											
Tuberculosis of Tarsal Bone.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	1
Tuberculosis of Testicles.....	.....	.....	.....	2	.....	.....	2	.....	.....	.....	.....	.....	.....	2	2
Tuberculosis of Wist.....	.....	1	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Tumor of Cerebellum.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Typhoid Fever.....	.....	.....	24	6	22	.....	.....	2	22	.....	.....	.....	.....	6	30
Ulcer of Foot.....	.....	.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Ulcer of Leg.....	1	1	5	.....	.....	2	.....	.....	5	1	.....	.....	.....	1	1
Ulcer of Leg, Varicose.....	1	1	5	10	5	13	.....	.....	8	1	1	.....	.....	7	17
Ulcer of the Leg, Syphilitic.....	.....	.....	4	1	4	1	.....	.....	4	.....	1	.....	.....	7	17
Ulcer of the Leg, Traumatic.....	1	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Ulcer of the Leg, Trophic.....	.....	.....	1	.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	1
Ulcer of the Rectum.....	.....	.....	1	.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	1
Ulcer, Rodent.....	.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
Undiagnosed.	2	3	15	9	8	9	10	8	20	5	.....	.....	.....	.....	30
Uræmia.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....
Vesical Calculus.....	.....	.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1

MEDICAL.—Continued.

Diagnosis.	On hand Jan. 1, 1897.		Admitted.		Recovered.	Improved.	Unimproved.	Died.	Discharged.	Transferred.	Klipped and Discharged for Misconduct.	Not Treated.	Complicating Other Diseases.	Remaining Dec. 31, 1897.	Total.
	Males.	Females.	Males.	Females.											
Wound, Contused.....	1	2	2	.....	1	.....	1	.....	1	.....	.....	.....	3
Wound, Gunshot of Thorax.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Wound of Finger.....	1	.....	.....	1	.....	.....	.....	.....	1	.....	.....	.....	1
Wound of Thorax, Punctured.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Wound of Toe, Punctured.....	1	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Wound of Scalp.....	22	5	25	.....	.....	.....	25	.....	.....	.....	.....	2	27
Wound, Septic.....	3	.....	3	.....	.....	.....	3	.....	.....	.....	.....	.....	3

DIVISION OF INFIRMARY.

MEDICAL.—Concluded.

RECAPITULATION.

	Males.	Females.
Patients on hand January 1st, 1897.....	78	54
Received by permit.....	487	332
Received from Insane Department.	18	18
Received from Infirmary Department.....	59	18
Received by Birth.....	16	14
Totals.....	658	436

Total treated during 1897.....	1,094
Discharged during 1897.....	770
Died during 1897.....	171
	941
On hand December 31, 1897.....	153

OPERATIONS.

Surgical.	Total No.	Cured.	Im- proved.	Unim- proved.	Died.	Re- main- ing.
Amputation of Leg.....	3	1	.....	.....	2	.....
Amputation of Breast.....	1	.....	.....	1	.....	.....
Amputation of Toes.....	3	3	.....	.....	.....	.....
Amputation of Uvula.....	2	2	.....	.....	.....	.....
Aspiration of Kidney.....	1	.....	1	.....	.....	.....
Aspiration of Knee Joint.....	1	1	.....	.....	.....	.....
Aspiration of Peritoneal Cavity.....	39	.....	39	.....	.....	.....
Aspiration of Thorax.....	21	.....	21	.....	.....	.....
Aspiration of Bladder.....	4	.....	4	.....	.....	.....
Circumcision.....	3	3	.....	.....	.....	.....
Cholecystotomy.....	1	1	.....	.....	.....	.....
Cataract Extraction.....	2	2	.....	.....	.....	.....
Chelazion, Removal of.....	1	1	.....	.....	.....	.....
Curettment of Fistula in Ano.....	3	2	1	.....	.....	.....
Curettment of Inferior Maxilla.....	2	2	.....	.....	.....	.....
Curettment of Larynx for Obstruction....	2	.....	2	.....	.....	.....
Curettment Ophthalmic.....	1	1	.....	.....	.....	.....
Curettment of Suppurating Tube... ..	2	2	.....	.....	.....	.....
Curettment of Tibia and Fibula for Caries..	3	1	.....	.....	.....	.....
Curettment of Uterus.....	25	23	2	.....	.....	.....
Dilation of Cervix.....	1	.....	.....	.....	1	.....
Enucleation of Eye.....	4	4	.....	.....	.....	.....
Excision of Lower Lip and Submental Gland for Carcinoma.....	1	1	.....	.....	.....	.....
Excision of Bartholinian Cyst.....	2	2	.....	.....	.....	.....
Excision of Bubo.....	3	3	.....	.....	.....	.....
Excision of Cuneiform Bone.....	1	.....	1	.....	.....	.....
Excision of Internal Saphenous Vein.....	2	2	.....	.....	.....	.....
Excision of Cervical Lymph Glands.....	2	2	.....	.....	.....	.....
Extirpation of Papilloma of Broad Liga- ments.....	1	1	.....	.....	.....	.....
Fibro-enchondrom of Parotid, Removal of.	1	1	.....	.....	.....	.....

OPERATIONS.—Continued.

Surgical.	Total No.	Cured.	Im- proved.	Unim- proved.	Died.	Re- main- ing.
Grattage for Granular Lids.....	1	1	.....	.....	.....	.....
Hemorrhoids, Clamp and Cautery for.....	2	2	.....	.....	.....	.....
Herniotomy, Kocher Operation for Double Inguinal.....	2	2	.....	.....	.....	.....
Herniotomy, Kocher Operation for Single Inguinal.....	1	1	.....	.....	.....	.....
Hydrocele, Tapping for.....	2	.....	2	.....	.....	.....
Heriotomy Post Operation Ventral Hernia.	1	1	.....	.....	.....	.....
Hydrocele, Von Bergman Operation for...	4	4	.....	.....	.....	.....
Hydrocephalus, Tapping.....	1	1	.....	.....	.....	.....
Hysterectomy, Abdominal.....	1	1	.....	.....	.....	.....
Hysterectomy, Vaginal.....	3	3	.....	.....	.....	.....
Incision of Abscess.....	31	26	5	.....	.....	.....
Incision of Bubo.....	1	1	.....	.....	.....	.....
Incision and Drainage of Pelvic Abscess..	1	1	.....	.....	.....	.....
Incision of Leg for Cellulitis.....	2	2	.....	.....	.....	.....
Incision of Septic Arm and Hand....	1	1	.....	.....	.....	.....
Incision of Abdomen to Remove Suture...	1	1	.....	.....	.....	.....
Laryngectomy.....	1	.....	1	.....	.....	.....
Lithotomy, Supra-pubic.....	1	1	.....	.....	.....	.....
Meningocele, Removal of.....	1	.....	.....	.....	1	.....
Nasal Polypi, Removal of.....	5	5	.....	.....	.....	.....
Nephrotomy	1	.....	1	.....	.....	.....
Neuroma of Stump, Removal of.....	1	1	.....	.....	.....	.....
Oophorectomy	2	1	.....	.....	1	.....
Perineal Section.....	4	1	1	.....	2	.....
Perineorrhaphy.....	10	10	.....	.....	.....	.....
Plastic Operation for Closure of Larynx...	1	.....	1	.....	.....	.....
Pyosalpinx, Double, Removal of.....	2	2	.....	.....	.....	.....
Resection of Ribs.....	4	3	1	.....	.....	.....
Resection of Metatarso-phalangeal Joint..	1	1	.....	.....	.....	.....
Salpyngo-oophorectomy.....	1	1	.....	.....	.....	.....

OPERATIONS.—Concluded.

Surgical.	Total No.	Cured.	Im- proved.	Unim- proved.	Died.	Re- main- ing.
Sarcoma of Superior Maxilla, Removal....	1	1	.....	.....	.....	.....
Skin Grafting.....	18	12	.....	6	.....	.....
Stretching Sciatic Nerve.....	1	.....	1	.....	.....	.....
Spina-bifida, Plastic Operation for.....	1	.....	.....	.....	1	.....
Tonsillotomy, Double.....	1	1	.....	.....	.....	.....
Trachelorrhaphy.....	1	1	.....	.....	.....	.....
Vesico-vaginal Fistula, Closure of.....	1	1	.....	.....	.....	.....
Ventro-Fixation of Uterus.....	1	1	.....	.....	.....	.....

Number of Surgical Dressings.....	11,989
Anæsthetic Given—	
Ether.....	22
Chloroform	135
Local	35
Autopsies—.....	123
Clinical Histories Taken.....	1,064
Physical Examinations Made.....	5,320
Laboratory Department—	
Chemical Analysis Urine.....	2,602
Microscopical Examination of Urine.....	923
Quantitative Estimation Albumen in Urine.....	47
Quantitative Estimation Sugar in Urine.....	8
Quantitative Estimation of Urea (Hydrobromite of Soda Method) Barometric and T. Corrections	16
Quantitative Estimation Nitrogen (Kjeldahl Method).....	31
Quantitative of Amonia.....	15
Sputum Examination.....	106
Blood Examinations Leucocytosis.....	120
" " for Plasmodia.....	25
" " Stained Preparations.....	75
" " Widal Reactions.....	64
" " Corpuscles Counted.....	20
" " Specific Gravity.....	13
" " Hemoglobin Estimated.....	15
Culture Media Made (Tubes).....	525
Cultures Grown and Differentiated.....	238
Cover Slip Preparations.....	248
Tissue Hardened and Imbedded.....	113
Tissue Sectioned and Stained.....	62
Feces Examined.....	20
Stomach Contents Examined, Chemical and Microscopical.....	19
Pleuritic Exudate, Chemical and Bacteriological Examinations.....	20
Ascitic Fluid (Chemical Quantitative and Qualitative Bacteriological and Microscopical).....	13

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Spectroscopic Examinations.....	5
Microphotographs Taken.....	25
Photographs Taken.....	40

Department of Pharmacy—

Prescriptions Filled.....	30,127
Syrup Made	154 gal.
Elixirs “	64 “
Tinctures“	41 “
Oils “	3 “
Lotions “	7½ “
Spirits “	28 “
Liniments Made.....	31½ “
Antiseptic Solutions Made.....	163 “
Acids Made.....	2½ “
Extracts Made.....	4 “
Collodion	1 “
Ointments Made.....	5 lbs.
Salts.....	10½ “

Department of Charities and Correction.

CEMETERIES.

Supervisor's Report.

HON. WM. J. AKERS,

Director of Charities and Correction.

DEAR SIR ;—I herewith present to you my annual report of the Department of Cemeteries, for the year ending Dec. 31, 1897. The tabulated statements attached will show that the different Cemeteries have been run economically and on a business basis. The state of funds would not permit us to make any special improvements, although some are absolutely necessary. The conditions of the buildings and fences, both in Woodland and Erie Street Cemeteries, is such that they certainly will have to be repaired and painted in the spring. During the past year exchange was made of the Lorain Heights Cemetery for the West Park Cemetery and an expenditure of Thirty thousand dollars (\$30,000) will be necessary to render the latter in condition for burial purposes.

Thanking you for courtesies in the past, both to myself and my assistants, I am,

Respectfully yours,

C. WAGNER,

Supervisor of Cemetery Department.

FINANCIAL STATEMENT.

Cash on hand January 1st, 1897	\$ 487 12	
RECEIPTS.		
From Sale of Land.....	18,815 90	
“ Interments.....	8,167 50	
“ Disinterments.....	331 00	
“ Improvements.....	3,594 90	
“ Vaultage.....	900,25	
Total to be accounted for.....		\$32,296 67
DISBURSEMENTS.		
For Supervision of Police.....	\$ 6,550 00	
“ Office Furniture and Fixtures.....	73 25	
“ Cemetery Furniture and Implements.....	223 37	
“ Office Supplies and Stationery	242 63	
“ Care of Horses, Repair of Wagons, etc.....	367 12	
“ Fuel, Light, Water and Ice.....	124 06	
“ Gardening Material.....	1,001 75	
“ Burial Material.....	769 95	
“ Labor	14,780 90	
“ Repairs to Vaults, Buildings, etc.....	203 01	
“ Contingent.....	178 20	
“ Land.....	1,900 00	
Total disbursements.....	\$26,414 24	
Cash on hand December 31st, 1897.....	5,882 43	\$32,296 67

NUMBER OF LOTS AND GRAVE SPACES SOLD DURING THE YEAR, CASH RECEIVED FOR THE SAME AND AMOUNT OUTSTANDING ON NOTES.

Cemeteries.	Number Sold.	Cash.	Out-standing.	Total.
Woodland	702	\$10,877 50	\$1,193 00	\$22,070 50
Erie.....	51	311 00	16 00	327 00
Monroe.....	252	1,171 00	71 00	1,242 00
Harvard Grove.....	82	1,458 90	241 75	1,700 65
Totals	1,087	\$13,818 40	\$1,521 75	\$15,340 15

TOTAL NUMBER OF BURIALS IN THE SEVERAL CEMETERIES TO JANUARY 1, 1898.

Woodland	37,283
Erie	17,674
Monroe.....	19,107
Harvard Grove.....	5,969
Total	80,033

BURIALS IN THE DIFFERENT CEMETERIES FOR THE YEAR OF 1897.

WOODLAND.

	January.	February.	March.	April.	May.	June.	July.	August.	Septemb'r.	October.	Novemb'r.	December.	Total.
Male Adults.....	44	42	51	35	25	36	35	32	31	37	32	38	438
Male Minors.....	30	36	32	22	25	27	57	42	46	33	31	33	414
Female Adults.....	22	36	36	28	34	29	30	14	28	35	32	40	364
Female Minors.....	24	28	34	29	17	21	64	36	36	29	27	19	364
Total	120	142	153	114	101	113	136	124	141	134	122	130	1580

ERIE.

Male Adults.....	3	1	4	1	4	1	5	1	4	2	2	1	29
Male Minors.....	2	1	2	1	2	4	.....	1	3	2	3	1	22
Female Adults.....	1	3	4	4	8	6	4	2	1	2	.....	3	38
Female Minors.....	3	2	4	1	1	.....	.....	2	.....	.....	1	3	17
Total	9	7	14	7	15	11	9	6	8	6	6	8	106

BURIALS IN THE DIFFERENT CEMETERIES FOR THE YEAR OF 1897.—Concluded.

MONROE.

	January.	February.	March.	April.	May.	June.	July.	August.	Septemb'r.	October.	Novemb'r.	December.	Total.
Male Adults.....	12	13	11	16	8	11	4	11	10	14	9	9	128
Male Minors.....	11	15	11	18	7	9	23	10	16	13	13	12	158
Female Adults.....	9	7	12	7	9	9	9	15	5	12	11	12	117
Female Minors.....	6	10	9	14	10	5	15	18	3	17	6	10	123
Total	38	45	43	55	34	34	51	54	34	56	39	43	526

HARVARD GROVE.

Male Adults.....	3	6	4	1	3	4	.....	.....	3	6	3	4	37
Male Minors.....	2	2	4	4	3	4	8	9	4	7	3	1	51
Female Adults.....	3	3	8	7	6	5	1	3	3	3	3	2	47
Female Minors.....	4	1	2	2	2	6	6	5	3	1	3	1	36
Total	12	12	18	14	14	19	15	17	13	17	12	8	171

CASH RECEIPTS OF HARVARD GROVE CEMETERY FOR THE YEAR OF 1897.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Sale of lots.....	\$ 32 50	\$ 89 10	\$ 309 95	\$ 126 80	\$ 55 00	\$ 178 50	\$ 81 50	\$ 48 50	\$ 260 50	\$ 141 55	\$ 37 00	\$ 98 00	\$1,458 90
Interments.....	32 00	39 50	72 75	52 00	61 75	68 00	43 75	47 50	45 50	51 00	44 50	34 50	592 75
Disinterments....	.....	2 50	.....	.....	2 50	.....	.....	.....	.....	.....	.....	.....	5 00
Improvements .....	.....	2 00	10 00	4 50	95 50	27 00	3 50	13 90	50	46 00	1 00	17 00	220 90
Vaultage .....	.....	4 50	12 50	10 00	3 50	3 50	.....	3 50	3 50	3 50	.....	5 50	50 00
Total	\$ 64 50	\$ 137 60	\$ 405 20	\$ 193 30	\$ 218 25	\$ 277 00	\$ 128 75	\$ 113 40	\$ 310 00	\$ 242 05	\$ 82 50	\$ 155 00	\$2,327 55

DISBURSEMENTS.

Pay Roll.....	\$ 122 50	\$ 132 00	\$ 150 75	\$ 157 50	\$ 227 62	\$ 190 87	\$ 176 25	\$ 170 25	\$ 157 50	\$ 153 00	\$ 135 00	\$ 123 75	\$1,896 99
Improvements.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Current.....	.....	.....	.....	10 00	19 41	25 59	60 20	.....	16 00	7 29	15 18	34 25	187 92
Total	\$ 122 50	\$ 132 00	\$ 150 75	\$ 167 50	\$ 247 03	\$ 216 46	\$ 236 45	\$ 170 25	\$ 173 50	\$ 160 29	\$ 150 18	\$ 158 00	\$2,084 91

CASH RECEIPTS OF MONROE STREET CEMETERY FOR THE YEAR 1897.

	January,	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Sale of lots.	\$ 41 50	\$ 96 00	\$ 58 50	\$ 154 50	\$ 102 50	\$ 71 00	\$ 91 00	\$ 123 50	\$ 69 50	\$ 138 50	\$ 86 00	\$ 138 50	\$1,171 00
Interments.....	99 00	164 50	137 00	205 50	141 75	120 50	176 50	163 50	126 50	211 50	116 00	154 50	1,816 75
Disinterments.....	.....	4 00	14 50	.....	14 00	.....	.....	2 50	.....	.....	13 00	9 00	57 00
Improvement.....	36 30	26 00	23 00	152 70	347 40	108 90	31 30	22 00	83 30	88 00	49 50	30 00	998 10
Vaultage	1 00	32 00	18 75	8 00	12 50	1 00	15 50	4 00	1 00	25 50	3 00	26 50	148 75
Total	\$ 177 80	\$ 322 50	\$ 251 75	\$ 520 70	\$ 618 15	\$ 301 40	\$ 314 00	\$ 315 50	\$ 290 30	\$ 463 50	\$ 265 50	\$ 358 50	\$4,189 60

DISBURSEMENTS.

Pay Roll.....	\$ 221 57	\$ 211 07	\$ 232 07	\$ 254 07	\$ 379 83	\$ 361 20	\$ 315 95	\$ 286 07	\$ 283 70	\$ 278 57	\$ 220 82	\$ 222 73	\$3,267 65
Improvements.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Current.....	5 00	2 90	12 50	42 50	3 90	60 52	33 50	2 33	55 15	6 12	15 90	9 80	250 12
Total	\$ 226 57	\$ 213 97	\$ 244 57	\$ 296 57	\$ 383 73	\$ 421 72	\$ 349 45	\$ 288 40	\$ 338 85	\$ 281 69	\$ 236 72	\$ 232 53	\$3,517 77

CASH RECEIPTS OF WOODLAND CEMETERY FOR THE YEAR OF 1897.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Sales of Lots.....	\$ 628 25	\$ 247 00	\$1,050 50	\$ 939 50	\$1,474 25	\$ 686 25	\$1,185 50	\$ 916 00	\$ 824 75	\$ 937 50	\$1,170 00	\$ 518 00	\$10,877 50
Interments.....	319 25	352 25	421 25	388 75	427 25	368 50	477 25	307 50	402 00	647 75	360 50	953 75	5,424 00
Disinterments.....	4 00	8 60	19 50	8 00	10 50	.....	.....	.....	2 50	57 00	72 50	6 50	188 50
Improvements.....	61 00	98 00	105 00	248 25	542 50	501 75	172 25	61 75	76 25	227 65	81 50	47 00	2,222 90
Vaultage.....	64 75	40 25	94 50	58 50	84 25	65 50	36 00	23 75	17 50	63 50	14 75	70 75	634 00
Total	\$1,077 25	\$1,045 50	\$1,690 75	\$1,641 00	\$2,538 75	\$1,622 00	\$1,871 00	\$1,349 00	\$1,323 00	\$1,933 40	\$1,699 25	\$1,596 00	\$19,346 90

DISBURSEMENTS.

Pay Roll.....	\$ 918 00	\$ 893 60	\$ 954 25	\$ 967 50	\$1,240 25	\$1,341 25	\$1,190 70	\$1,164 25	\$1,137 25	\$1,164 20	\$ 894 45	\$ 839 00	\$12,694 60
Improvements.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Current.....	5 26	84 80	57 23	77 86	413 04	335 08	148 86	169 54	130 89	120 14	133 62	330 82	2,007 14
Total	\$ 923 26	\$ 978 30	\$1,011 48	\$1,035 36	\$1,653 29	\$1,676 33	\$1,339 56	\$1,333 79	\$1,268 14	\$1,284 34	\$1,028 57	\$1,169 82	\$14,701 74

Department of Charities and Correction.

CEMETERIES.

FINANCIAL SUMMARY.

Balance on hand January 1st, 1897.....			\$ 487 12
RECEIVED FOR SALE OF LAND.			
Woodland	\$10,877 50		
Erie	308 50		
Monroe	1,171 00		
Harvard Grove	1,458 90		
Lorain Heights.....	5,000 00		
		\$18,815 90	
RECEIVED FOR INTERMENTS.			
Woodland	\$ 5,424 00		
Erie	334 00		
Monroe	1,816 75		
Harvard Grove.....	592 75		
		\$ 8,167 50	
RECEIVED FOR DISINTERMENTS.			
Woodland	\$ 188 50		
Erie	80 50		
Monroe.....	57 00		
Harvard Grove.....	5 00		
		\$ 331 00	
RECEIVED FOR IMPROVEMENTS.			
Woodland	\$ 2,222 90		
Erie	155 00		
Monroe.....	996 10		
Harvard Grove	220 90		
		\$ 3,594 90	

FINANCIAL SUMMARY.—Concluded.

RECEIVED FOR VAULTAGE.			
Woodland	\$ 634 00		
Erie	67 50		
Monroe	148 75		
Harvard Grove	50 00		
		\$ 900 25	
Total			\$ 31,809 55
Grand Total.....			\$ 32,296 67
DISBURSEMENTS.			
Woodland.....	\$14,701 74		
Erie	1,957 46		
Monroe.....	3,517 77		
Harvard Grove	2,084 91		
Dennison Avenue.....	152 50		
Lorain Heights.....	978 99		
West Park	2,816 35		
Undivided	204 52		
Total.....		\$26,414 24	\$ 26,414 24
Balance Fund January 1st, 1898.....			\$ 5,882 43

Department of Charities and Correction.

HOUSE OF CORRECTION

1014

Superintendent's Report.

HON. WM. J. AKERS,

Director of Charities and Correction,

DEAR SIR:—I have the honor to present herewith the statistical and financial report of the House of Correction for the year ending December 31, 1897, the twenty-seventh in its history

Preliminary to some very brief mention of the year's work, I regard it due you to say that I fully appreciate the characteristic attention which this institution has received from you since assuming the responsible duties of this Department, nor should I omit acknowledgment of the continued courtesies and interest of His Honor, the Mayor, and other officials with whom I have been brought in contact by the varied duties of my position.

The accompanying statistical information and financial showing presents with reasonable clearness and detail the history and results of the operations of the year.

As I have previously endeavored to express, our institution is primarily a House of Correction, and incidentally a manufactory. Our first and most constant duty is to provide a place for the detention, and to endeavor for the moral and physical improvement, of those whose liberty is dangerous or debasing to the community. To this first duty, this nobler purpose, we have sought to make every endeavor of the year loyal; and I feel that considerable has been accomplished, and all without the necessity of any aid from the City; and closing with a comfortable cash balance in the Treasury; practically no indebtedness and satisfactory increase over the previous year in the total of assets carried to the credit of the City.

Early in the year we completed the improved bath system, which supplants the old method in use since the beginning of the institution. The new plan, by separate overhead shower

baths, thoroughly and healthfully cleanses twenty-two inmates as quickly as one by the old way, and absolutely without the possibility of contamination endangered by bathing many prisoners one after another in a large tub. This improvement is of thorough construction in every detail—in foundation floor of portland cement—and in plumbing, drain pipes, and water supply pipes, hot water regulator, etc., a most desirable addition to the facilities of the institution, and a benefaction to its inmates.

In the same period was also accomplished a general reconstruction of the dining room and kitchen and extensive improvements of the cooking apparatus, permitting increased economy in operation. The improvement included the construction of a commodious pantry and much needed additions to the capacity and convenience of rooms overhead.

Since the erection of our buildings twenty-seven years ago, great progress has been made in sanitary construction, and a great deal learned about the planning of prison buildings with reference to sanitation. In the largest measure which the original construction of the buildings permitted, we have endeavored for healthfulness and cleanliness, while cheerfulness of surroundings has been sought to the utmost that whitewash, bright paint and neatly kept grounds can lessen prison gloom.

The conveniences of the factory have been greatly added to by a reconstruction of the stairways and outer entrances and additions and improvements in machinery and manufacturing methods.

The old closets of the factory which were certainly unsanitary even when new, have been supplanted by a new and thoroughly sanitary closet system. The conditions in the rear of the buildings and at the barn have also been materially improved by an extension of the sewerage and closet system upon the rear of our premises.

With increasing age, the buildings of course require increasing expenditures for repairs. Regarding it economy to keep our buildings in thorough repair, we have continued this work whenever needed, the most important items being the renewal of badly worn floors and many supporting joists and heavy timbers,

with some necessary extensions of foundations and interior painting and a somewhat general repair of the roofs, flushings, gutters, down spouts, etc.

An entirely unexpected and heavy item of expense has been occasioned by the break in the sewer, running through the rear of the property. On account of the great depth and difficulty of the necessary excavations, this has already required a large expenditure, and one that will be very greatly increased before completion.

This expenditure of course very materially effects the financial showing of the year just closed and will likewise that of the year to come.

I am constrained to add that I am impressed with the unfairness of compelling our institution to bear the entire burden of this sewer reconstruction. Whether as now constituted, or modified by any future system, or intercepting sewer, it cannot be regarded otherwise than as a section of the trunk or main sewer of the drainage system of an immense territory, the expense of which should be borne by the general fund or by pro rata tax upon all the property benefited. In estimating the share of the House of Correction, I would of course be willing to have all of the circumstances that occasioned this extraordinary expenditure taken into consideration; but to impose the burden in its entirety upon us to the crippling of the working capital, which by three years of hard labor we have acquired and are strenuously seeking to maintain, deeply impresses me as flagrant injustice.

The business of the year in manufacture has made very gratifying increase, notwithstanding the continuance, though in much lessened degree, of the general business depression and our insistence upon prices for our manufactured product, that assure a profit to our institution and prevent unfair competition with concerns producing similar products with non-prison labor. The wisdom of this policy seems to me clearly indicated by the result of the year's work in the department of manufacture and the influence it promises to have upon prices in the revival of trade that is slowly but surely coming.

Comparing our boarding account with the previous year, we have suffered somewhat of a decrease in gross receipts. This has been greatly due to our insisting upon a price for maintain-

ing outside prisoners that would fully reimburse us for making comfortable provision for their every reasonable requirement and pro rata share of incidental expense, which has prompted the management of a similar institution in this part of the state to receive prisoners at a lower rate for maintenance.

The unwisdom of this competition, has I think already impressed our neighbor, and our normal share of boarders from contiguous territory may soon return to us.

The report of the House Physician again indicates a year exceptionally free from epidemic or unusual run of disease, while the readiness with which such disorders, as have occurred, yielded to treatment, certainly indicates a healthfulness of surroundings that is very satisfactory.

I desire to indicate my appreciation of the constant unpaid and highly effective assistance from without that comes to us in behalf of the moral uplifting of our people.

I cannot too highly commend the genuine Christian spirit of the labors of Captain Dennison and his co-workers of the Salvation Army in the Sunday School ; of the non-sectarian services of Messrs. Hales, Daley, Mrs. Armitage and others under the admirable leadership of Captain H. T. Fisher ; and of the unremitting ministrations of Father Storm and assistant workers in the Catholic faith, Messrs. Martin and Crowler, the Misses Cary and Miss Caine. I have faith to believe that while the efforts of these good people may often seem to be "seed sown upon stony ground," some of it may find root and its fruit bless their labors. The gratitude of our City is due them.

I desire in conclusion to repeat my acknowledgment made a year ago of valuable services rendered by faithful and competent officials and employes ; to many of whom we are especially indebted for extra labor in behalf of the institution, given freely and cheerfully.

Respectfully submitted,

PHILIP H. DORN,
Superintendent.

Physician's Report.

HON. WM. J. AKERS,

Director of Charities and Correction,

DEAR SIR :—I have the honor to report as follows concerning the duties performed as physician in the House of Correction for the year ending December 31, 1897.

I have had occasion to give 4,852 prescriptions and attend 32 cases of injury, most of them of course received before entering the institution.

During the year there have been six deaths, five males and one female, from causes as follows : alcoholism three, pneumonia one, uraenic poisoning one, and convulsions one.

The quality of the food, the regimen of the prison and the general sanitary conditions, I regard with the highest satisfaction. The superintendent manifests the keenest interest in everything pertaining to the healthfulness of the prison and under his direction many and very important improvements have been made, helpful to cleanliness and sanitation. Very respectfully,

DR. C. A. STEDMAN,

House Physician.

Statistical Statement.

**STATEMENT OF FINES AND COSTS COLLECTED IN
CITY AND STATE CASES FOR THE YEAR
ENDING DECEMBER 31, 1897.**

Months.	City Cases.	State Cases.	Total.
January	\$ 151 85	\$ 236 71	\$ 388 56
February	81 00	104 00	185 90
March	282 80	60 90	343 70
April	299 35	215 65	515 00
May.....	307 70	174 88	482 58
June.....	311 45	133 90	445 35
July	252 75	63 10	315 85
August	246 85	354 95	601 80
September.....	111 80	129 54	241 34
October.....	200 20	73 07	273 27
November	221 95	117 80	339 25
December.....	215 85	25 90	241 75
Total	\$2,683 55	\$1,690 80	\$4,374 35

TABLE No. 1.
SHOWING POPULATION FOR THE YEAR ENDING
DECEMBER 31, 1897.

	Males.	Females.	Total.
Remaining January 1, 1897.....	415	65	480
Total number committed in 1897.....	2,903	330	3,233
Total	3,318	395	3,713
Discharged in 1897.....	2,937	348	3,285
Total remaining December 31, 1897	381	47	428

TABLE No. 2.
SHOWING NUMBER OF PRISONERS RECEIVED
EACH MONTH.

	Males.	Females.	Total.
Remaining January 1, 1897.....	415	65	480
Received in January	210	22	223
“ February....	157	26	183
“ March.....	214	31	245
“ April.....	199	25	224
“ May.....	266	25	291
“ June	252	50	302
“ July.....	220	26	246
“ August.....	260	35	295
“ September.....	232	20	252
“ October.....	280	30	310
“ November.....	284	14	298
“ December	338	26	364
Total.....	3,318	395	3,713
Discharged in 1897.....	2,937	348	3,285
Remaining December 31, 1897.....	381	47	428

TABLE No. 3.
SHOWING NUMBER DISCHARGED DURING
EACH MONTH.

	Males.	Females.	Total.
Discharged during January.....	255	25	280
“ “ February.....	193	23	216
“ “ March.....	206	39	245
“ “ April.....	264	31	295
“ “ May.....	214	29	243
“ “ June	275	30	305
“ “ July.....	236	37	273
“ “ August.....	247	25	272
“ “ September.....	242	36	278
“ “ October.....	251	31	282
“ “ November.....	249	24	273
“ “ December	305	18	323
Total	2,937	348	3,285

TABLE NO. 4.
DAILY AVERAGE.

	Males.	Females.	Total.
Daily average January	393	64	457
" " February	343	64	407
" " March	336	63	399
" " April	291	52	343
" " May	307	50	357
" " June.....	309	57	366
" " July	280	57	337
" " August.....	293	64	357
" " September.....	292	59	351
" " October.....	294	48	342
" " November.....	317	40	357
" " December.....	358	43	401
Maximum population January 1, 1897.....	415	65	480
Minimum population April 29, 1897.....	265	51	316
Daily average for year 1897.....	318	55	373

TABLE No. 5.
SHOWING HOW DISCHARGED.

	Males. :	Females.	Total.
Expiration of sentence, no fine.....	14	.....	14
“ “ fine, and costs, cash.....	15	2	17
Fine and costs paid in cash.....	53	5	58
“ “ “ labor.....	2,167	177	2,344
“ “ “ “ and cash.....	465	130	595
Died.....	5	1	6
Escaped	1	.....	1
Pardoned	5	2	7
Paroled.....	104	23	127
Habeas Corpus.....	4	.....	4
Fines remitted	14	2	16
By order of Court.....	74	6	80
“ “ Commissioners Cuyahoga County	1	.....	1
“ “ “ of other Counties.....	9	.....	9
“ “ Mayors.....	5	.....	5
“ “ County Auditors	1	.....	1
Total	2,937	348	3,285

TABLE NO. 6.
SHOWING NUMBER OF TIMES COMMITTED
DURING 1897.

	Males.	Females.	Total.
First Commitment.....	1,567	93	1,660
Second "	511	41	552
Third "	237	26	263
Fourth "	145	27	172
Fifth "	84	16	100
Sixth "	35	21	56
Seventh "	32	9	41
Eighth "	33	9	42
Ninth "	29	7	36
Tenth "	28	7	35
Eleventh "	23	8	31
Twelfth "	20	8	28
Thirteenth "	16	7	23
Fourteenth "	11	3	14
Fifteenth "	11	2	13
Sixteenth "	14	3	17
Seventeenth "	15	4	19
Eighteenth "	12	4	16
Nineteenth "	11	3	14
Twentieth "	8	2	10
Twenty-first "	6	2	8
Twenty-second "	3	4	7
Twenty-third "	3	1	4
Twenty-fourth "	4	2	6
Twenty-fifth "	3	2	5
Twenty-sixth "	2	1	3
Twenty-seventh "	1	1	2
Twenty-eighth "	4	1	5

TABLE No. 6.—Continued.

	Males.	Females.	Total.
Twenty-ninth Commitment.....	2	1	3
Thirtieth “	2	.....	2
Thirty-first “	2	1	3
Thirty-second “	1	.....	1
Thirty-third “	1	.....	1
Thirty-fourth “	2	1	3
Thirty-fifth “	2	1	3
Thirty-sixth “	2	1	3
Thirty-seventh “	2	2	4
Thirty-eighth “	1	.....	1
Thirty-ninth “	1	1	2
Fortieth “	1	1	2
Forty-first “ .....	.....	1	1
Forty-second “	1	2	3
Forty-third “	4	1	5
Forty-fourth “	1	.....	1
Forty-fifth “	1	.....	1
Forty-seventh “	1	1	2
Forty-eighth “	1	.....	1
Fifty-sixth “	1	.....	1
Fifty-eighth “	1	.....	1
Sixtieth “	1	.....	1
Sixty-fifth “	1	.....	1
Sixty-ninth “	1	1	2
Seventieth “	1	1	2
Seventy-first “	1	.....	1
Total	2,903	330	3,233

TABLE No. 7.
SHOWING FROM WHAT COURTS COMMITTED.

	Males.	Females.	Total.
Common Pleas, Cuyahoga County.....	44	2	46
Common Pleas, Portage County.....	1	.....	1
Justices' Court, Cuyahoga County.....	12	.....	12
" " Lake County.....	6	.....	6
" " Lorain County.....	3	.....	3
" " Portage County.....	4	.....	4
United States District Court.....	9	.....	9
Mayor of Fairport.....	5	.....	5
" Leetonia.....	1	.....	1
" Lorain.....	5	.....	5
" Madison.....	1	.....	1
" Millersburg.....	1	.....	1
" Painesville.....	11	.....	11
" Ravenna.....	8	.....	8
" Wadsworth.....	1	.....	1
Police Court, Cleveland.....	2,791	328	3,119
Total.....	2,903	330	3,233

TABLE No. 8.

SHOWING NATURE OF OFFENSE.

	Males.	Females.	Total.
Abusing family.....	1	.....	1
Adultery.	2	1	3
Assault.....	1	.....	1
Assault and battery	113	5	118
Assault and battery to wife	1	.....	1
Attempt to pass altered obligation U. S.....	1	.....	1
Attempt to pass counterfeit coin.....	1	.....	1
Breaking into railroad car.....	3	.....	3
Carrying concealed weapons.....	15	.....	15
Common beggar	15	1	16
Common prostitute.....	.....	40	40
Conversion of property as bailee.....	1	.....	1
Cruelty to animals.....	4	.....	4
Defrauding innkeeper.....	2	.....	2
Destruction of property	19	.....	19
Disorderly conduct	26	6	32
Disturbance	32	6	38
Disturbing a religious meeting	1	.....	1
Embezzlement.....	5	.....	5
Embezzlement of postal funds	1	.....	1
Entering premises to steal poultry	2	.....	2
Escape from Workhouse.....	3	.....	3
Fornication.....	3	2	5
Gambling.....	2	.....	2
Having in possession and passing counterfeit coin.....	1	.....	1
Housebreaking	10	.....	10
Indecent exposure of person	8	.....	8
Intoxication.....	2,188	235	2,423
Keeping house of ill-fame.....	2	2	4
Larceny.....	3	.....	3
Malicious destruction of property.....	3	.....	3

TABLE NO. 8.—Concluded.

	Males.	Females.	Total.
Mailing obscene letter.....	2	.....	2
Neglect of children.. ..	11	1	12
Obtaining money by false pretenses	6	.....	6
Petit larceny.....	70	17	87
Receiving stolen property.....	12	.....	12
Residing in house of ill-fame.....	.....	2	2
Resisting officer	1	.....	1
Shooting lark.....	2	.....	2
Smuggling.....	2	.....	2
Soliciting... ..	1	3	4
Suspicious person.....	101	3	104
Taking bribe as juror.....	1	.....	1
Threatening in a menacing manner	4	.....	4
Unlawful opening of letter by mail carrier.....	1	.....	1
Unlawfully taking letter from P. O.....	1	.....	1
Uttering and publishing forged R. R. tickets.....	.....	1	1
Vagrancy.....	62	4	66
Violating health ordinance.....	1	.....	1
" measure ordinance	1	.....	1
" peddling ordinance.....	2	.....	2
" property ordinance.....	42	.....	42
" railroad law.....	69	.....	69
" sidewalk ordinance.....	15	.....	15
" street ordinance.....	1	.....	1
" State school law.....	1	.....	1
" Sunday liquor law.....	7	.....	7
Visiting house of ill-fame.....	14	1	15
" opium joint.....	1	.....	1
Wrongfully using horse.....	3	.....	3
Total	2,903	330	3,233

TABLE No. 9.

SHOWING SENTENCES OF PRISONERS COMMITTED
DURING 1897.

No.		Fine and Costs.	Months.	Days.
97	Sentenced	From \$ 1 00 to \$ 5 00	.....	.....
2067	“	“ 5 00 to 10 00	.....	.....
133	“	“ 10 00 to 15 00	.....	.....
94	“	“ 15 00 to 20 00	.....	.....
48	“	“ 20 00 to 25 00	.....	.....
18	“	“ 25 00 to 30 00	.....	.....
26	“	“ 30 00 to 35 00	.....	.....
18	“	“ 35 00 to 40 00	.....	.....
5	“	“ 40 00 to 45 00	.....	.....
2	“	“ 45 00 to 50 00	.....	.....
12	“	“ 50 00 to 60 00	.....	.....
5	“	“ 60 00 to 70 00	.....	.....
2	“	“ 70 00 to 80 00	.....	.....
5	“	“ 80 00 to 90 00	.....	.....
2	“	“ 100 00 to 125 00	.....	.....
2	“	“ 125 00 to 150 00	.....	.....
1	“	“ 200 00 to 225 00	.....	.....
1	“	“ 1 00 to 5 00	.....	5
2	“ —no fine.....	.....	.....	10
16	“	“ 1 00 to 5 00	.....	10
3	“	“ 5 00 to 10 00	.....	10
16	“	“ 10 00 to 15 00	.....	10
2	“	“ 15 00 to 20 00	.....	10
7	“	“ 20 00 to 25 00	.....	10
2	“	“ 25 00 to 30 00	.....	10
1	“	“ 30 00 to 35 00	.....	10
2	“	“ 35 00 to 40 00	.....	10
2	“	“ 40 00 to 50 00	.....	10

TABLE No. 9.—Continued.

SHOWING SENTENCES OF PRISONERS COMMITTED
DURING 1897.

No.		Fine and Costs.	Months.	Days.
1	Sentenced	From \$ 60 00 to \$ 70 00	.....	10
2	"	" 80 00 to 90 00	.....	10
1	"	" 100 00 to 150 00	.....	10
1	"	" 20 00 to 25 00	.....	15
1	" —no fine.....	.....	.....	28
3	" " .....	.....	.....	30
17	"	" 1 00 to 5 00	.....	30
1	"	" 5 00 to 10 00	.....	30
7	"	" 10 00 to 15 00	.....	30
2	"	" 15 00 to 20 00	.....	30
4	"	" 20 00 to 25 00	.....	30
246	"	" 25 00 to 30 00	.....	30
63	"	" 30 00 to 35 00	.....	30
16	"	" 35 00 to 40 00	.....	30
5	"	" 40 00 to 45 00	.....	30
4	"	" 45 00 to 50 00	.....	30
87	"	" 50 00 to 60 00	.....	30
38	"	" 60 00 to 70 00	.....	30
6	"	" 70 00 to 80 00	.....	30
6	"	" 80 00 to 90 00	.....	30
3	"	" 90 00 to 100 00	.....	30
6	"	" 100 00 to 125 00	.....	30
3	"	" 125 00 to 150 00	.....	30
2	"	" 150 00 to 175 00	.....	30
1	"	" 175 00 to 200 00	.....	30
1	"	" 200 00 to 225 00	.....	30
4	"	" 225 00 to 250 00	.....	30
3	"	" 350 00 to 375 00	.....	30

TABLE No. 9.—Continued.

SHOWING SENTENCES OF PRISONERS COMMITTED
DURING 1897.

No.		Fine and Costs.	Months.	Days.
2	Sentenced	From \$ 50 00 to \$ 75 00	.....	40
1	“ —no fine.....	.....	.....	60
1	“	“ 10 00 to 20 00	.....	60
1	“	“ 40 00 to 50 00	.....	60
5	“	“ 60 00 to 70 00	.....	60
2	“	“ 80 00 to 90 00	.....	60
1	“	“ 100 00 to 125 00	.....	60
3	“	“ 150 00 to 175 00	.....	60
2	“	“ 200 00 to 225 00	.....	60
1	“ —no fine. ....	.....	.....	90
1	“	“ 70 00 to 80 00	.....	90
1	“	“ 325 00 to 350 00	.....	90
1	“	“ 25 00 to 50 00	2	.....
14	“	“ 50 00 to 100 00	2	.....
2	“	“ 20 00 to 30 00	3	.....
1	“	“ 45 00 to 50 00	3	.....
8	“	“ 50 00 to 100 00	3	.....
8	“	“ 100 00 to 125 00	3	.....
3	“	“ 200 00 to 225 00	3	.....
1	“ —no fine.....	.....	4	.....
1	“	“ 25 00 to 50 00	4	.....
1	“	“ 100 00 to 125 00	4	.....
1	“	“ 200 00 to 250 00	4	.....
1	“	“ 50 00 to 100 00	5	.....
3	“ —no fine.....	.....	6	.....
7	“	“ 20 00 to 50 00	6	.....
2	“	“ 100 00 to 150 00	6	.....
4	“	“ 200 00 to 250 00	6	.....

TABLE No. 9.—Concluded.

SHOWING SENTENCES OF PRISONERS COMMITTED
DURING 1897.

No.		Fine and Costs.	Months.	Days.
2	Sentenced	From \$250 00 to \$300 00	6	....
1	“	“ 300 00 to 325 00	6	.....
1	“	“ 500 00 to 550 00	6	.....
1	“	“ 225 00 to 250 00	7	.....
1	“ —no fine.....	.....	9	.....
1	“ —no fine.....	.....	10	.....
1	“	“ 175 00 to 200 00	15	.....
1	“ —no fine.....	.....	1 year	.....
3,233	Total.			

TABLE No. 10.

SHOWING AGE OF PRISONERS WHEN COMMITTED.

	Males.	Females.	Total.
Under twenty.....	196	15	211
Twenty and under thirty.....	1,110	111	1,221
Thirty and under forty.....	751	115	866
Forty and under fifty.....	496	65	561
Fifty and under sixty.....	272	20	292
Sixty and under seventy.....	70	3	73
Seventy and under eighty.....	8	1	9
Total.....	2,903	330	3,233

TABLE No. 11.
COLOR.

	Males.	Females.	Total.
White	2,774	308	3,082
Colored	129	22	151
Total	2,903	330	3,233

TABLE NO. 12.
HABITS OF LIFE.

	Males.	Females.	Total.
Confessed themselves intemperate.....	2,741	316	3,057
Claimed to be temperate.....	162	14	176
Total	2,903	330	3,233

TABLE No. 13.
SOCIAL RELATIONS.

	Males.	Females.	Total.
Married.....	792	232	1,024
Single	2,111	98	2,209
Total	2,903	330	3,233

TABLE No. 14.
EDUCATION.

	Males.	Females.	Total.
Could read and write.....	2,630	273	2,903
Could read only.....	29	17	46
Could neither read nor write.....	244	40	284
Total	2,903	330	3,233

TABLE NO. 15.
RELIGIOUS BELIEF.

	Males.	Females.	Total.
Catholics	1,670	198	1,868
Protestants.....	1,198	132	1,330
Hebrews.....	16	.....	16
No religion.....	19	.....	19
Total	2,903	330	3,233

TABLE NO. 16.

For the purpose of indicating the average effect of confinement in and the regimen of our institution, the following table gives the gain and loss in weight from the records of the last one hundred prisoners discharged in the year 1897.

GAIN AND LOSS.			WEIGHT AND DAYS OF CONFINEMENT.		
2 prisoners gained.....			1 lb. in 15 days.		
10	"	"	.....	2	" 21 "
5	"	"	.....	3	" 50 "
13	"	"	.....	4	" 29 "
14	"	"	.....	5	" 46 "
8	"	"	.....	6	" 29 "
10	"	"	.....	7	" 37 "
4	"	"	.....	8	" 23 "
4	"	"	.....	9	" 45 "
5	"	"	.....	10	" 77 "
4	"	"	.....	11	" 48 "
1	"	"	.....	12	" 86 "
5	"	"	.....	13	" 59 "
2	"	"	.....	14	" 108 "
1	"	"	.....	19	" 97 "
1	"	"	.....	20	" 112 "
1	"	"	.....	24	" 112 "
2	"	lost	.....	1	" 17 "
3	"	"	.....	2	" 57 "
2	"	"	.....	4	" 91 "
3	"	prisoners neither gained nor lost.....			17 "

TABLE No. 17.

NATIVITY.

	Males.	Females.	Totals.
United States.....	1,737	178	1,915
Ireland	302	65	367
Germany	239	7	246
England	141	31	172
Canada	84	22	106
Bohemia.....	70	8	78
Scotland,.....	62	11	73
Austria	38	.....	38
Poland.....	33	3	36
Finland	33	.....	33
Slavonia.....	28	2	30
Switzerland.....	20	.....	20
Hungary.....	19	.....	19
Sweden	17	1	18
Russia.....	13	.....	13
Wales.....	15	.....	15
Italy.....	10	1	11
France.....	5	1	6
Denmark	6	.....	6
Holland	5	.....	5
Norway.....	4	.....	4
Belgium	4	.....	4
Isle of Man.....	4	.....	4
Nova Scotia.....	3	.....	3
West Indies	2	.....	2
South Wales.....	2	.....	2
Newfoundland.....	2	.....	2
Australia	2	.....	2
East Indies.....	1	.....	1
Mexico	1	.....	1
Syria	1	.....	1
Total	2,903	330	3,233

TABLE No. 18.

SHOWING INDUSTRIAL RELATION.

	Males.	Females.	Total.
Actors.....	1	.....	1
Agents.....	7	.....	7
Artists.....	2	.....	2
Axlemakers.....	2	.....	2
Axmakers.....	3	.....	3
Bakers.....	25	.....	25
Barbers.....	29	.....	29
Bartenders.....	6	.....	6
Basketmakers.....	1	.....	1
Blacksmiths.....	23	.....	23
Blacksmiths' helpers..	7	.....	7
Boilermakers.....	34	.....	34
Boltmakers.....	6	.....	6
Bookbinders.....	1	5	6
Bookkeepers.....	10	.....	10
Boxmakers.....	2	.....	2
Brakemen.....	12	.....	12
Brassfinishers.....	17	.....	17
Brewers.....	5	.....	5
Bricklayers.....	13	.....	13
Bridgebuilders.....	6	.....	6
Broommakers.....	1	.....	1
Brushmakers.....	3	.....	3
Buffers.....	5	.....	5
Butchers.....	35	.....	35
Buttonmakers.....	2	.....	2
Cabinetmakers.....	2	.....	2
Carbonmakers.....	1	.....	1
Carpenters.....	52	.....	52
Carpetweavers.....	2	1	3

TABLE No. 18.—Continued.

	Males.	Females.	Total.
Casemakers.....	2	.....	2
Chainmakers.....	2	.....	2
Caulkers.....	1	.....	1
Cigarmakers.....	28	.....	28
Cigarpackers.....	2	.....	2
Clerks.....	19	.....	19
Coachmen.....	2	.....	2
Collarmakers.....	1	.....	1
Conductors.....	4	.....	4
Confectioners.....	2	.....	2
Cooks.....	36	24	60
Coopers.....	5	.....	5
Coremakers.....	8	.....	8
Curriers.....	2	.....	2
Cutlers.....	1	.....	1
Dressmakers.....	.....	13	13
Druggists.....	2	.....	2
Electricians.....	3	.....	3
Engineers.....	26	.....	26
Farmers.....	3	.....	3
Filecutters.....	2	.....	2
Firemen.....	185	.....	185
Fishermen.....	2	.....	2
Flaxdressers.....	1	.....	1
Florists.....	2	.....	2
Forgers.....	2	.....	2
Furniture packers.....	3	.....	3
Galvanizers.....	2	.....	2
Gardeners.....	7	.....	7
Glassblowers.....	2	.....	2
Glasscutters.....	1	1
Hardwood finishers.....	1	1
Harnessmakers.....	4	4
Heaters.....	7	7

WORKHOUSE.

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TABLE No. 18.—Continued.

	Males.	Females.	Total.
Horseshoers.....	12	12
Housework	272	272
Hucksters.....	2	.....	2
Illustrators.....	1	.....	1
Ironworkers.....	23	.....	23
Japanners.....	2	.....	2
Jewelers.....	1	.....	1
Knitters.....	2	.....	2
Laborers.....	1,416	.....	1,416
Lathers.....	3	.....	3
Launderers.....	1	.....	1
Laundresses .....	.....	5	5
Lawyers.....	1	.....	1
Linemen.....	2	.....	2
Locksmiths.....	1	.....	1
Machinists.....	68	.....	68
Marblecutters	5	.....	5
Masons.....	6	.....	6
Mattressmakers	2	.....	2
Millers.....	3	.....	3
Miners.....	6	.....	6
Moulders	68	.....	68
Musicians	2	.....	2
Nailmakers..	2	.....	2
Nickleplaters.....	5	.....	5
Nurses.....	1	.....	1
Nutmakers	3	.....	3
Painters.....	109	.....	109
Paperhangers.....	4	.....	4
Papermakers	1	.....	1
Patternmakers.....	2	.....	2
Pavers.....	1	.....	1
Photographers.....	2	.....	2
Physicians.....	2	.....	2

TABLE No. 18.—Continued.

	Males.	Females.	Total.
Plasterers	14	.....	14
Plumbers.....	9	.....	9
Polishers.....	17	.....	17
Porters	3	.....	3
Potters	1	.....	1
Postmasters.....	1	.....	1
Pressmen.....	3	.....	3
Printers	21	.....	21
Puddlers.....	22	.....	22
Quarrymen	6	.....	6
Riveters	4	.....	4
Rivetheaters.....	3	.....	3
Rollers	4	.....	4
Roofers.....	2	.....	2
Roughers	3	.....	3
Sailmakers	2	.....	2
Sailors.....	96	.....	96
Salesmen	9	.....	9
Saloonkeepers.....	2	.....	2
Screwcutters.....	2	.....	2
Sculptors	1	.....	1
Seamstresses.....	.....	8	8
Shipbuilders.....	5	.....	5
Shipping clerks.....	2	.....	2
Shoecutters.....	1	.....	1
Shoemakers.....	41	.....	41
Silkweavers.....	1	.....	1
Slateroofers.....	4	.....	4
Slaters.....	3	.....	3
Springmakers.....	4	.....	4
Steamfitters.....	16	16
Stenographers.....	1	1
Stonecutters.....	11	11
Stonemasons....	3	3

WORKHOUSE.

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TABLE No. 18.—Concluded.

	Males.	Females.	Total.
Stovemounters.....	4	4
Switchmen.	19	19
Tailors.....	23	.....	23
Tanners.....	2	.....	2
Teamsters.....	2	.....	2
Telegraphers	3	.....	3
Tinners.....	28	.....	28
Upholsterers.....	7	.....	7
Varnishers.....	3	.....	3
Veterinarians	1	.....	1
Wagonmakers	2	.....	2
Waiters.....	31	.....	31
Watchmakers.....	2	.....	2
Weavers	2	1	3
Whitewashers.....	5	.....	5
Wiredrawers.....	6	.....	6
Woodturners	2	.....	2
Wringermakers.....	1	.....	1
Total,.....	2,903	330	3,233 .

Financial Statement.

**BALANCE SHEET OF CLEVELAND HOUSE OF COR-
RECTION DECEMBER 31, 1897.**

	Trial Balance.		Inventory.
	Dr.	Cr.	
Cleveland City.....	\$.....	\$424,274 49	\$.....
City Treasurer.....	24,319 43	.....	.....
Cash.....	300 00	.....	.....
Bills Receivable.....	7,492 51	.....	.....
Accounts Receivable.....	19,137 51	.....	.....
Real Estate.....	37,538 65	.....	37,486 71
Buildings.....	273,622 03	.....	275,331 47
Furniture and Fixtures.....	5,521 52	.....	5,724 61
Machinery and Fixtures.....	18,037 96	.....	18,878 06
Heating, Lighting and Bath System.....	.....	.....	5,114 05
Fuel, Light and Ice.....	6,450 62	.....	54 05
Improvements and Repairs.....	1,812 96	.....	359 89
Live Stock.....	675 00	.....	665 00
Manufacture.....	3,790 89	.....	27,787 09
Provisions.....	13,787 02	.....	864 33
Clothing and Bedding.....	7,602 92	.....	6,463 00
Hay, Feed and care of Horses.....	439 26	.....	41 75
Medical Supplies and special attention.....	92 87	.....	25 50
General Expense.....	2,136 40	.....	540 52
Salary.....	21,568 63	.....	.....
Freight.....	1,529 52	.....	.....
Discount.....	.....	354 80	.....
Fines City Cases.....	.....	1,629 70	.....
Boarding.....	.....	19,494 91	.....
Interest.....	.....	101 80	.....
Manufacture.....	292 31	.....	.....
To bills payable (not audited).....	.....	292 31	.....
Total.....	\$446,148 01	\$446,148 01	\$379,356 03
To Balance—(Excess of gains over expense.).....			
Total.....		

WORKHOUSE.

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JANUARY 1, 1897, TO JANUARY 1, 1898.

Profit and Loss.		January 1, 1898.	
Expense.	Gains.	Assets.	Liabilities.
.....
.....	.....	\$ 24,319 43	.....
.....	.....	300 00	.....
.....	.....	7,492 51	.....
.....	.....	19,137 51	.....
\$ 51 94	.....	37,486 71	.....
.....	\$ 1,709 44	275,331 47	.....
.....	203 09	5,724 61	.....
.....	840 10	18,878 06	.....
.....	1,302 70	5,114 05	.....
2,585 22	.....	54 05	.....
1,453 07	.....	359 89	.....
10 00	.....	665 00	.....
.....	23,996 20	27,787 09	.....
12,902 69	.....	884 33	.....
397 51	.....	41 75	.....
1,139 92	.....	64 63	.....
67 37	.....	25 50	.....
1,595 88	.....	540 52	.....
21,568 63	.....	.....	.....
1,529 52	.....	.....	.....
.....	354 80	.....	.....
.....	1,629 70	.....	.....
.....	19,494 91	.....	.....
.....	101 80	.....	.....
292 31	.....	.....	.....
.....	.....	.....	\$ 292 31
.....
6,038 68	.....	City of Cleveland	430,313 17
49,632 74	49,632 74	430,605 48	430,605 48

**CASH ACCOUNT, HOUSE OF CORRECTION,
JANUARY 1, 1897-DECEMBER 31, 1897.**

Bal. with City Treasurer, Jan. 1, 1897		\$ 30,096 64		
Bal. in hands of Supt., Jan. 1, 1897...		300 00		
RECEIPTS.				
Manufacture	\$ 46,556 52			
Boarding	21,932 97			
Fines, City cases.....	1,629 70			
Transportation, Police Dep't.....	480 00			
Miscellaneous	188 17			
Aggregate Receipts.....		70,787 30		
EXPENDITURES.				
Salary, Supervision.....			\$ 22,048 63	
Provisions			12,780 42	
Clothing and Bedding			2,091 60	
Fuel and Light.....			2,585 22	
Medicine and Special Attention...			68 87	
Hay and Feed, etc.....			395 94	
General Expense			1,842 24	
Furniture and Fixtures.....			126 41	
Machines and Fixtures...			1,052 55	
Improvements and Repairs.....			1,744 93	
Land and Buildings			2,497 62	
Manufacture and Freight			30,186 65	
Total			77,421 08	
Less Discounts gained.....			856 57	
Aggregate expenditures				\$76,564 51
Bal. with City Treasurer, Jan. 1, 1898				24,319 43
Bal. in hand of Sup't, Jan. 1, 1898...				300 00
		\$ 101,183 94		\$101,183 94

WORKHOUSE.

COMPARATIVE STATEMENT HOUSE OF CORRECTION,
JANUARY 1, 1897, AND JANUARY 1, 1898.

	January 1, 1897.		January 1, 1898.	
Funds in hands City Treasurer.....	\$ 30,096 64		\$ 24,319 43	
Funds in hands Superintendent.....	300 00		300 00	
		\$ 30,396 64		\$ 24,619 43
Bills Receivable.....	\$ 3,341 44		\$ 7,492 51	
Accounts Receivable.....	23,442 96		19,137 51	
		26,784 40		26,630 02
INVENTORY.				
Real Estate.....	\$ 35,041 03		\$ 37,486 71	
Buildings.....	273,622 03		275,331 47	
Furniture and Fixtures.....	5,405 11		5,724 61	
Machinery and Fixtures.....	17,024 02		18,878 06	
Heating, Lighting, Bath System.....			5,114 05	
Fuel, Light and Ice.....	3,867 70		54 05	
Improvements and Repairs.....	91 73		339 89	
Live Stock.....	675 00		665 00	
Manufacture.....	24,329 77		27,787 09	
Provisions.....	1,156 41		834 33	
Clothing and Bedding.....	5,522 57		6,463 00	
Hay, Feed, Care of Horses.....	45 22		41 75	
Medical Supplies.....	24 00		25 50	
General Expense.....	295 91		540 52	
		367,100 50		379,356 03
		\$424,281 54		\$430,605 48
Less Amounts Bills Payable.		7 05		292 31
Assets—Net		\$421,274 49		\$430,313 17
Assets—Net Increase (to bal.)...		6,038 68		
Total		\$430,313 17		\$430,313 17

STATEMENT OF PER CAPITA EXPENDITURES FOR
MAINTENANCE OF PRISONERS.

Subsistence, per capita expenditure per annum	\$30,945+
Subsistence, per capita expenditure per diem .....	.084+
Clothing and Bedding, per capita expenditure per annum.....	5.607+
Subsistence, Clothing and Bedding, per capita expenditure per annum.....	36.552+

APPENDIX.

Citizens' Committee on Public Improvements.

On January 22, 1898, a meeting of prominent citizens was held in the Mayor's office to consider the question of public improvements for the city, in response to the following letter sent out by the Mayor:

"DEAR SIR:—At the opening of the present city administration a non-partisan committee of twenty-two prominent business men was appointed to consider the question of public improvements. This committee applied itself diligently to its work, and through sub-committees prepared and adopted valuable reports which have been carefully followed by the administration. Various improvements of commanding importance to our city have been undertaken and either completed or pushed to advanced stages. It will be necessary, as was originally anticipated, to obtain additional legislation for some of these at the present Session of the General Assembly. I have therefore decided to appoint a committee similar to that which gave its services to these enterprises two years ago, and respectfully ask you to serve as a member thereof, believing that your interest in the subjects and your unbiased judgment will render you a valuable counsellor.

"In order that the matter may be properly and expeditiously considered, I have obtained detailed reports from the engineering department and the various directors covering what has been done, and have embodied the facts thus obtained in a comprehensive statement which is now ready for presentation. I would be pleased to have the committee thoroughly investigate the conduct of the improvements before accepting this report, and would suggest that sub-committees be again appointed to consider each enterprise separately as formerly.

"You are earnestly requested to attend the first meeting of the committee to be held in the Mayor's office, at 2 o'clock, standard time, Saturday afternoon, January 22, 1898, when an organization will be effected.

"I am, very truly yours,

"R. E. McKISSON."

In response to the foregoing invitation the following persons were present:

Messrs. Lea McBride, J. W. Conger, H. W. S. Wood, A. T. Van Tassel, A. A. Jackson, C. J. Manix, Milton Morton, Edward Wiebenson, T. W. Hill, M. A. Foran, L. N. Weber, Jacob Steinfeld, W. M. Day, C. W. Chase, Judge F. E. Dellenbaugh, M. G. Watterson, Judge E. J. Blandin and N. A. Gilbert, Esq.

The Mayor, who acted as Chairman, called for the reading of a report prepared by him on public improvements which is given on the following pages.

Mayor's Address.

CLEVELAND, O., January 22, 1898.

Gentlemen :

It has seemed to me wise to call together at this time, as on former occasions, a representative body of our citizens and taxpayers for the purpose of conferring with them relative to legislation needed for the interests of our city at the present biennial session of the General Assembly. As you are aware, numerous public improvements of commanding importance to the city are now under way, and it is to call your attention more particularly to the existing status of these that this meeting has been arranged.

In order to fully understand the scope of the work now in progress it may be proper to review briefly the manner in which it has been undertaken. Plans were laid at the opening of the present city administration in 1895, for the starting of various improvements for which the people had for many years been asking. Arrangements were made for a careful examination by expert sanitary engineers of national reputation, namely, Mr. Rudolph Herring, of New York; Mr. Desmond Fitzgerald, of Boston, and Mr. George H. Benzenberg, of Milwaukee, relative to the systems of sewerage and drainage and water supply of the city, and their opinions were sought concerning the best methods to pursue in remedying existing defects. The subject of river and harbor improvements was also taken up and plans were considered for carrying them forward on a basis of thoroughness and permanence. The expert commission deliberated until November, 1895, when an elaborate report was made. Steps were forthwith taken by the city to comply with their recommendations. A non-partisan commission of twenty-two well-known

business men was appointed to consider the whole question of public improvements, together with the wisest and most expeditious manner of bringing them about. The men associated in this important work were :

Hon. L. E. Holden, Hon. S. E. Williamson, Samuel Mather, Francis J. Wing, W. M. Day, C. W. Chase, Judge F. E. Dellenbaugh, J. B. Perkins, C. F. Brush, Theodor Kundtz, Hon. W. J. White, W. F. Dietz, M. G. Watterson, S. L. Severance, J. H. McBride, O. M. Stafford, Myron T. Herrick, Julius Feiss, Dr. W. H. Humiston, H. A. Garfield, John Meckes, and F. W. Pelton.

This commission after careful deliberation recommended the procuring of the necessary funds by the issuance of bonds. Bills were drafted and were introduced in the State Legislature and passed in April, 1896, authorizing the city to proceed on this basis. They provided for the issuance of \$500,000 bonds for river and harbor improvements; \$1,500,000 for a new water tunnel; \$750,000 for an intercepting sewer system, and \$100,000 for a garbage plant, and \$250,000 for bridges. The legality of some of the Acts, was, however, questioned and it became necessary to have the matter brought into the Supreme Court where it was held until July, 1896, when the validity of the laws was established.

It is not necessary to go into all the details of the steps taken during the succeeding months. It is sufficient to say that the work has been advanced through progressive stages by the assistance of prominent citizens; ordinances have been drafted and passed; a vast amount of negotiating and conferring with railroad officials and others has been done, and it is with a feeling of satisfaction that the Administration is able to report that substantially all of the improvements authorized under these appropriations are now either under actual construction or entirely completed. The city administration is ready to carry forward the undertakings still under way to expeditious completion with proper co-operation on the part of the citizens, together with that of the Council and the State Legislature.

As was anticipated at the outset it will be necessary to continue some of the improvements, particularly the intercepting sewer system, through a number of years in order to complete them, and as the appropriations made at the last Session were

designed to cover the years 1896 and 1897, it is essential that steps be taken to provide the funds needed for the years 1898 and 1899.

In addition to appropriations desired for continuing improvements now in progress, I believe that steps should be taken at once for building a new City Hall, in order that the present rented quarters may be abandoned.

It is proper that the public should be fully informed of the manner in which the appropriations formerly made have been expended and of the results accomplished, in order that well-advised action may be taken with reference to the future. Hence this statement has been prepared, and is herewith submitted.

RIVER WIDENING.

Alterations of vast importance to the marine and business interests of the City of Cleveland have been made during the last two years in the channel of the Cuyahoga River, and with some additional attention the entire portion of this valuable waterway within the city limits will be placed in condition to meet the requirements for many years to come. As a result of the united effort of the city administration and the River and Lake Front Commission plans for the improvements have been adopted as far up as Seneca Street Bridge, and the river has been substantially widened from its mouth to the Center Street Bridge. With the removal or straightening of various angles and bends beyond the latter point the entire channel will be made available for the easy passage of the largest vessels now plying the Great Lakes. New dock lines have been established for the river within the city limits, and all new docks must now be constructed according to lines and plans which are specifically laid down by ordinance so that hereafter there will be no indiscriminate dock building, but all docks will be uniform in construction and of certain depth. The Commission has furthermore adopted plans to take all center piers out of the river and has strictly adhered to this policy since said action was decided upon to the great satisfaction of commercial interests which have long deprecated the existence of these obstructions to the free use of the channel. If these improvements had been made in the early eighties, we would not

to-day have any such maritime competitors as Ashtabula, Conneaut and Lorain, and now that they are practically assured and in great part completed there should be no hesitancy in applying the finishing touches. In view of the advanced stages which the operations in the river and inner harbor have reached, however, the efforts of the city may be turned more particularly and aggressively now to the improvement of the Lake Front, and this is the intention of the Administration for next year.

DETAILED REPORT OF WORK ACCOMPLISHED.

The River and Lake Front Commission has held frequent sessions from the time of appointment, having primarily divided the river channel into sections beginning at the river's mouth, then proceeding upwards and taking up the discussion in a systematic and orderly manner. Through the efforts of those interested the United States Government was induced to set aside three and one-fourth millions of dollars for the improvement of the outer harbor to be used through a period of years while the State Legislature at its last Session authorized the issuance of \$500,000 bonds for the city's use in improving its portion of the inner harbor and river. The Commission early decided that it would be best to provide one large, adequate mouth to the river than to continue the two smaller outlets, this portion of the channel being thronged and wholly overtaxed during the rush of navigation by large ore and lumber vessels, some of which passed through it on their way to the old river bed docks and others on their way to the lumber and ore docks farther up the river and by the many passenger and merchant vessels, and pleasure boats going in and out on their daily trips, the entire number of vessels, entering and clearing at the port of Cleveland each season being about 8,000. In carrying out this project the Commission was aided by land conveyed to the city by the Lake Shore & Michigan Southern Railway Company in connection with the railway bridge transaction at the old river bed. A great deal of time was consumed and a large amount of money expended in the acquiring of other property at the mouth of the river desired for the government improvements, but all the parcels except that owned by the Pennsylvania Company have been

obtained by the city and all the land north of the Pennsylvania Company's section to the mouth of the river has been transferred to the government which is now ready to proceed through the government engineer, Col. Jared A. Smith, as soon as opportunity will allow to widen the river mouth to twice its present width. So far as the question of property is concerned it might be stated that all of the land desired for river widening purposes from the Valley Railway bridge No. 2 to the old river bed has been obtained with the exception of three small parcels.

During the summer of 1897 the work of removing old docks and dredging the channel between the Main street bridge and the Superior street viaduct was undertaken and completed, making the channel 86 feet wider for a distance of 400 feet and an average of 60 feet wider for a distance of 480 feet. This gives an average width of channel of 276 feet, in comparison with 180 feet in the narrowest place as formerly. This section has been provided with new and improved docks and is now of sufficient width to allow several of the largest vessels to pass to and fro at one time in safety, thus relieving the congested condition in a portion of the channel which has been under public condemnation for years owing to its narrowness and danger of accident and constant delay and annoyance in traffic. The acquiring of property along the line of this improvement was difficult and necessarily called for the expenditure of a large amount of money.

Extensive improvements in the old river bed are also being made by the Lake Shore & Michigan Southern Railway Company under an agreement with the city whereby the company is permitted to build a steel bridge and permanently maintain it instead of building a swing bridge as originally provided in an old ordinance passed by the Council.

These improvements consist of an opening 100 feet wide into Lake Erie, giving the public a sixty-foot water-way and a forty-foot street, the latter to be properly docked and maintained—this being an improvement agitated for perhaps a quarter of a century by residents of the West Side. Furthermore, the company is constructing a winding place for vessels 350 feet long and 150 feet wide with no expense to the city. Altogether these improvements in the old river bed will be of incalculable value in extending the facilities of that overcrowded passageway from

the river channel proper to the large docks to which the most cumbersome vessels on the lakes ply their course. Added to the foregoing improvements which on account of their commanding importance take precedence, other smaller, but nevertheless essential alterations have been made. The troublesome bend in the old river bed about 800 feet west of the Willow street bridge has been straightened and enlarged. In the upper river new docks have been built and the river widened between Seneca and Mahoning streets, making it an average of 142 feet wide instead of an average of 100 feet. The channel was also projected last year to a point farther up than ever before, enabling vessels to reach the docks of the various provision companies—an accomplishment appreciated by all concerned. The entire channel of the river from its mouth to the Jefferson street bridge on the south was dredged a foot deeper and from 30% to 50% wider in 1897 than ever before, greatly increasing its utility for the passage of vessels.

The work contemplated for next year comprises the completion of operations at and near the mouth of the river, land for which is now practically acquired; the widening of the river from Center street under the viaduct to the completed improvement; the straightening of "Collision Bend;" the straightening of the channel at Jefferson street, and other minor improvements in the upper channel. With these accomplished no further improvements in the Cuyahoga river will probably be needed for many years to come.

IMPROVEMENTS ON THE LAKE FRONT.

Every one familiar with maritime affairs in Cleveland knows of the great demand manifest in recent years for landing places on the lake front both east and west of the Cuyahoga river. In order to meet this demand and at the same time utilize what is considered the greatest natural advantage possessed by this city, the River and Lake Front Commission early completed plans for the elaborate improvement of the eastern portion referred to. These plans comprised the building of a northern approach to the bridge across the railroad tracks at Erie street and the extension of a double pier out into the lake for a distance of about

1300 feet; the building of a bridge across the railroad tracks at the foot of Seneca street fully half a mile west of Erie street, and the construction of a pier also at this point; the connecting of the ends of these piers by a pile and timber protection built parallel to the shore line, thus making a vast enclosure to be filled in with dirt and other refuse material hauled from various parts of the city in wagons across the bridges and dumped at the water's edge,—the ultimate design being to some day have land which will be owned by the city extending from the present shore line northward to where will stand docks with slips between them sufficient for large vessels to lie alongside.

The work of building the pier at Erie street has been pushed until it has reached the distance of 1140 feet. A pile and timber protection has been built parallel with the shore, 234 feet therefrom, for a distance of 731 feet toward the west. Within the inclosure made by this piling, the pier and the shore, a large quantity of dirt has been dumped during the last two years and it is now practically filled. The hope and intention of the city is to fill in the entire space extending from Seneca to Erie streets to a line connecting the ends of the piers at such points. The made land between the future docks and the present shore line will approximate $64\frac{1}{4}$ acres, and may eventually be made into a magnificent park. It is the desire to continue the improvements at this point as rapidly as possible, and to this end special attention will be given to them during the coming season, when an effort will be made to complete the extension of the pile protection to Seneca street and build two docks for the landing of pleasure boats and other craft. Necessarily the advancement of this great undertaking will call for a considerable outlay of money, but the investment will more than pay the city in the great value of the land thus acquired for dockage purposes, to say nothing about the vast acreage which can be utilized for a lake front park.

Another enterprise which we desire to take up during the coming year is the building of docks at Willson avenue, the center of a large and important manufacturing district. The natural facilities at this point for both freight and passenger traffic are apparent at a glance, and no more popular move could be made than to supply the already pressing demand.

FUNDS NEEDED.

Taking into consideration all of the needs above referred to and the existing status of affairs for the improvement of the lake front as well as the completion of those now under way in the river, based on a recent report of the Chief Engineer, I would recommend that authority be granted the city to issue \$1,000,000 additional bonds for these purposes, believing that no investment of any character can add so much to the general advancement and commercial development of our city.

INTERCEPTING SEWER SYSTEM.

Marked progress has been made during the last year and a half in advancing work on the comprehensive intercepting sewer system recommended for this city by the expert commission in 1895. This system, as all are aware, is to consist of a large trunk sewer, extending along the entire lake front from the western limits of the city, and a central trunk sewer bisecting the city and connecting with the lake front interceptor, the outlet for the system being located east of the city limits and far removed from the course of the water supply. A portion of this great conduit known as the West End Interceptor was undertaken early last summer and completed from Alger street to Lake avenue, a distance of about a mile. This section of the sewer is 7½ feet in diameter.

It is proposed to complete the construction of the intercepting sewer on the West Side next season by continuing an additional section east from Alger street to Waverly avenue with a temporary outlet at Waverly avenue to Lake Erie. We are now ready to let the contract for the construction of the western terminus of the interceptor from the intersection of the Lake Shore & Michigan Southern Railway and Lake avenue, west on Lake avenue to the city limits. This interceptor will receive the output of a large number of lateral main sewers and will afford relief to the overcrowded and inadequate sewer facilities for the entire section of the city west of Waverly avenue, as well as relieving a considerable section east of said street, in fact all of that territory west of Pearl street and north of Lorain street, giving

it permanent and adequate sewer privileges. In addition to the work contemplated on the West Side for the year 1898, the construction of a portion of the intercepting sewer east of the river will also be undertaken and completed.

Land for the terminal works several miles east of the city was acquired last winter, and the construction of the terminal facilities will be effected next season. The building of the interceptor from the city terminal point to Doan street will be pushed as rapidly as possible, and a lateral main interceptor will be constructed in Doan street from St. Clair street south, giving permanent relief to the entire eastern and southeastern sections of the city. Another section of the east interceptor which it is intended to build next season is that between Muirson and Water streets. This portion of the business section of the city has long been in need of relief, nearly all of the down-town sewers being wholly inadequate to the demands made upon them. By the construction of this portion of the interceptor this entire section will be greatly benefited. By pushing to completion the sections of the intercepting sewer thus referred to a long stride toward ultimate realization of the plans now under way will have been taken, and at the same time relief will be afforded, through the construction of lateral sewers, to those portions of the city which are now in greatest need of it.

THE WALWORTH SEWER.

While a portion of the money obtained from the bond issue authorized two years ago has been expended on the western interceptor, by far the greatest part has been devoted to the building of the Walworth street interceptor, which is a part of the great central sewer comprising the intercepting system under construction. The Walworth street sewer is to be three miles in length, and for purposes of convenience in building, it has been divided into four sections, three of these sections are now under contract and partially completed. The diameter of the sewer will range from 8 to 16½ feet, the sewer being classed among the greatest in the world. It will last for many generations, and will take care of the sewage of the larger part of the West and South Sides, or an area of over 3,000 acres—nearly one-sixth of the entire city. The foundation and a portion of the side walls

are of concrete, and the remaining parts of the sewer of brick. It would be interesting to our citizens generally to inspect this sewer and gain a correct idea of the benefit it will be to this thickly populated section of the city. The commencement of work on the sewer early in 1897 was made the signal for a grand demonstration, arranged jointly by citizens of the West and South Sides. The three sections will unquestionably be finished by the fall of 1898. The cost of the entire improvement was originally estimated at nearly \$900,000, but the bids have been much lower than expected, and it is now evident that the work will be done for \$700,000. The construction of this sewer will incidentally prove of great value as a health measure, and a rough and almost useless gully will at the same time be transformed into a modern and useful street.

FUNDS NEEDED FOR SEWERS.

In order that the work under contemplation for intercepting sewers may be wisely and satisfactorily advanced during the next two years, I would advise that authority be given the city by the State Legislature to issue \$1,000,000 additional bonds for this purpose. This will permanently establish the system proposed by the expert commission, giving to Cleveland the relief now demanded, and when completed, will rid the entire Lake Front of the almost innumerable small sewers which now infest it.

DIVERSION OF GIDDINGS BROOK.

For a long time residents of the eastern portion of the city have been petitioning for the abandonment of Giddings Brook, which is a constant menace to the public health in that section of the municipality. This stream should be diverted without delay into Doan Brook. Besides greatly improving the health conditions in that locality, this alteration will afford needed relief to the Cedar avenue, Woodland avenue, Euclid avenue, Superior street and St. Clair street sewers, which are now taxed beyond their capacity, thus giving the citizens through this entire belt of territory adequate sewer privileges.

I would therefore recommend that a bond issue of \$50,000. be allowed the city by the Legislature for this important work,

so that it may be undertaken and completed during the coming season.

THE EXTENSION OF WATER WORKS.

Authority was granted by the last Legislature to the city to build a new water tunnel. This was in accordance with the recommendation of the expert sanitary commission for providing increased facilities, as well as a purer supply and insurance against water famine to the city. A site of seven acres of land for a new pumping station was obtained at the foot of Coe street and bids were received for the tunnel to extend five miles into the lake from this point. Work was commenced on the tunnel on October 10th, 1896, when a shaft over 100 feet deep was sunk near the water's edge, and the tunneling out of an aqueduct nine feet in diameter under the lake was begun. About a mile of the tunnel is now constructed. It is estimated by the contractor that a year and a half or two years at the farthest will be required for the completion of the undertaking. Two temporary cribs have been constructed and lodged in the lake on the line of the tunnel in order to facilitate its progress, and a modern steel inlet crib is nearing completion for use when the tunnel is finished. A portion of the expense of this improvement is being supplied from earnings of the Water Works Department. It will not be necessary to ask for any additional legislation in the interest of the improvement.

The building of this tunnel is of great importance to the health of our citizens, and they would be well repaid for a visit of inspection to it, the experience of traveling far out under the lake, at the same time being novel and interesting.

BRIDGES.

Few cities in the United States are compelled to expend as much money annually for bridges and their maintenance as is the City of Cleveland. Owing to the fact that the city is divided by the Cuyahoga river, and that its surface is otherwise broken by smaller streams and consequent hills and valleys, the outlay in this respect is large.

At the last session of the Legislature authority was granted the city to issue bonds to the amount of \$250,000 for bridges. The most important structure built under this appropriation was the Willow street bridge, crossing the old river bed, a short distance from its opening into the Cuyahoga river, and connecting what is known as Whisky Island with the main land. The new bridge replaced a temporary wooden structure built in 1889 and intended for a few years use. The old bridge rested on a center pier near the middle of the channel, and its underside was only 6½ feet above the surface of the water. The new bridge rests on a pier located on the north side of the channel, leaving a clear opening of 138 feet for the passage of vessels. It has a swing span of 295 feet and is operated by two thirty-five horse power motors. Its cost was \$67,000, with \$26,100 added for the purchase of land.

Through this legislative appropriation the city was also enabled to enter into an arrangement for the construction of a viaduct over the Nickle Plate tracks at Willson avenue. This viaduct, which is to be a steel and iron structure of modern design, is now under construction. It is to be 1,100 feet long, extending from Francis to Julia street, and spanning a valley formerly traversed by thousands of pedestrians and teams each day. The Nickle Plate Railroad Company was induced to construct the greater portion of this bridge, at a cost of \$90,000. The Cleveland Electric Railroad Company also contributed \$10,000 towards the project, this company desiring to cross the bridge with its tracks.

Under the same legislative appropriation the Seneca street wooden bridge giving access to the Lake Front was built at a cost of \$7,800. The proposed new Center street bridge, which is to replace the present structure of twenty-five years' standing, obviating the center pier, has also called for an expenditure thus far of \$17,000 for land.

FUNDS NEEDED FOR BRIDGES.

According to a statement made by Chief Engineer Rawson the city will need \$250,000 to properly care for the construction, re-construction and maintenance of bridges for the next two

years. This will provide for the Willett street viaduct, the Martin-Praha street bridge, the Main street bridge, the Center street bridge, the Warner Road arch and culvert, and the reconstruction and repair of other bridges. I would therefore recommend that authority be obtained to issue the amount of bonds named in Mr. Rawson's report.

GARBAGE DISPOSAL.

A great deal of attention has been given in recent years to the provision of a sanitary means of disposing of the garbage and refuse of Cleveland. The consideration of this problem has been in the hands of a commission of citizens, consisting of Mr. J.G.W. Cowles, Mr. Samuel Mather, Dr. W. H. Humiston, Mr. Kaufman Hays, Mr. Henry W. S. Wood, and Councilmen Palmer, Thompson, Steuer and McKenney. A tour of investigation was made early in 1897 by a special committee, which presented an exhaustive report on the results of its observations. Bonds were issued under authority granted by the last Legislature to the amount of \$100,000 and bids were three times received. On the first and second occasions all bids were rejected, but on the third it was decided that the bid of The Buckeye Refuse Destruction Company was as near satisfactory as could be obtained, and this company will undertake to carry out a five year contract with the city. Although the matter was handled very carefully, some members of the commission, namely Mr. Cowles and the Mayor, were not entirely satisfied to permit the letting under the last bid, but it will doubtless work out all right, as the city has the option of owning the plant at the expiration of the contract in 1902.

A CONDUIT SYSTEM.

The recognized wisdom of establishing a comprehensive and complete underground conduit system for police, fire, alarm, telegraph and telephone wires leads me to advise that steps be taken at once for the construction of such system by the city, to be owned by it and space therein to be leased at fixed rentals to the Companies desiring to share its use. It is necessary that this matter should receive attention without delay if it is to be properly

handled. Practically all the wires in the down town district are now underground, and as the city grows and expands the need of an adequate conduit system becomes more and more apparent. In addition, I believe the city can and should receive a return from this class of corporations for use of the streets, as from the surface railroads.

I would therefore recommend that legislation be obtained at Columbus properly covering this subject, enabling the city to equitably obtain exclusive control of its streets and establish a municipal conduit system.

NEW CITY HALL.

The pressing demand for better and more adequate quarters than are now provided for the municipal offices is apparent to all. If there is one thing above another which the general public desires in Cleveland, I believe it is the erection of a new City Hall. Two years ago the people decided by vote to locate a building on the north-east section of the Public Square, but the matter was almost immediately taken into Court by injunction suits, and finally the repeal of all legislation on the subject was obtained by the opponents of this site. Since that time negotiations have been in progress for the securing of another suitable location, and there is reason to believe that such site will be obtained within the near future. It is therefore recommended that action be taken during the present session of the Legislature, giving the city authority to issue bonds for the proposed building. Already the arrangements are made under existing contracts by which these bonds may be cared for by applying the receipts from the Gas Companies of the city to this purpose. The amount of money from this source in the hands of the Sinking Fund Commission to the credit of the City Hall Fund is now \$230,569.50. Assuming that the receipts will increase \$1,000 annually, (which is very considerably less than has been the case to date) this fund will amount to in

1902.....	\$ 627,000.00
1907.....	\$ 877,000 00
1912.....	\$1,352,000.00
1917.....	\$1,753,000.00
1922.....	\$2,177,000.00
1927.....	\$2,627,000.00

Thus thirty year bonds issued in 1898 to the amount of \$2,500,000 could be taken care of so far as principal is concerned, without adding any tax to the present levy. However, I think it is perfectly safe to say that this fund will take care of thirty-year bonds, both principal and interest, to the amount of \$1,500,000 without additional tax to the people. I would therefore recommend that authority be granted by the Legislature to issue the latter amount, which may be sufficient for this purpose, and that the present site be selected and that a suitable structure be erected thereon.

For reasons stated above the entire principal and interest being provided for outside of the tax levy, I would recommend such legislation as will provide for the exclusion of these bonds from the net city debt as provided in Section 2701 of the Revised Statutes.

RECAPITULATION.

In order to properly separate the amounts of desired issues referred to in this statement, and formulate definite recommendations, I would consider the following a safe estimate upon which to base legislative action:

For River and Harbor Improvements.....	\$1,000,000
For Bridges.....	250,000
For Intercepting Sewers	1,000,000
For Diverting Giddings Brook	50,000
	<hr/>
Total	\$2,300,000
For New City Hall, as provided above.....	\$1,500,000

CITY DEBT AND TAX RATE.

When the movement for needed public improvements in this city was started in 1895, a cry of opposition went up in certain quarters that the tax rate would be greatly increased through the proposed undertakings. At that time it was declared by the city administration that such results were not likely to follow, and the facts now apparent in this direction clearly prove the accuracy of such statement. The tax rate for municipal purposes re-

mained the same in 1896 and 1897 as for the preceding two years, namely \$13.70 on each \$1,000 of valuation. I am glad to announce the levy for municipal purposes has been cut down even less than this for 1898, being \$13.60, or lower than it has been since 1886 with one exception. There is, therefore, no cause for alarm in this connection, at least for the present. It must be remembered that the tax rate of a city may be nominally high and yet not excessive upon the real value of property. A 3 per cent. rate where property is valued at thirty-three cents of its actual value amounts to the same thing as a 1 per cent. rate where valuation closely approximates the actual value of property.

Taking the reports made by the city authorities of the percentage which the tax valuation bears to real value in the following cities, the latest statistics available give very interesting results, which I have tabulated as follows:

CITY.	Nominal Tax Rate.	Actual Tax Rate
Cleveland.....	2.93	1.02
Cincinnati.....	2.64	1.56
Pittsburgh.....	1.30	1.30
Detroit.....	1.76	1.32
Baltimore.....	2.00	1.60
Boston.....	1.30	1.30
Buffalo.....	1.41	1.03 $\frac{3}{4}$
Brooklyn.....	2.83	2.83
Louisville.....	1.85	1.48
Milwaukee.....	2.31	1.15 $\frac{1}{2}$
New Orleans.....	2.00	1.42
New York.....	2.10	1.28
Philadelphia.....	1.85	1.38 $\frac{3}{4}$
St. Paul.....	2.14	1.39

It will be seen from the above that the actual tax rate of Cleveland is far below the average of other large cities, being, in fact, more favorable than any other city of its size or relative importance.

The finances of Cleveland are in excellent condition and it is desired that they shall be kept so. According to figures prepared in the offices of the Director of Account, the net city debt on January 1st, 1898, was \$6,991,732.43. The following estimates show what the margins would be between the city debt and the present debt limit at the close of 1898, 1899 and 1900 respectively:

1898.

Net Debt, January 1, 1898	\$ 6,991,732.43
Pay Bonds, in 1898.....	\$1,036,070.00
Pay Notes, in 1898.....	305,242.00
	<u>\$1,341,312.00</u>
Less Viaduct Bonds, (from Sk. Fd.)	
	\$452,000
Less Funded Debt Bonds,	
Renew, 218,000	670,000.00
	<u>671,312.00</u>
	\$ 6,320,000.00
Increase in 1898, Sewer Dist. B'ds,	\$250,000.00
St. Imp. Notes,	350,000.00
	<u>600,000.00</u>
	\$ 6,920,000.00
Probable accretion of sinking funds	60,000.00
	<u>\$ 6,860,000.00</u>
Probable net debt. January 1, 1898.....	\$ 6,860,000.00
Debt limit January 1, 1899, estimated.....	10,000,000.00
	<u>Reserve.....</u>
	\$ 3,140,000.00

1899.

Net Debt January 1, 1899	\$ 6,860,000.00
Pay bonds in 1899.....	\$460,060.00
Pay notes in 1899	319,940.00
	<u>\$780,000.00</u>
Less funded debt bonds, (renew).....	200,000.00
	<u>580,000.00</u>
	\$ 6,280,000.00
Issue in 1899, Sewer dist. bonds.....	\$250,000.00
St. Imp. Notes.....	350,000.00
	<u>600,000.00</u>
	\$ 6,880,000.00
Probable accretion of sinking funds	60,000.00
	<u>\$ 6,820,000.00</u>
Probable net debt January 1, 1900.....	\$ 6,820,000.00
Debt Limit January 1, 1900, estimated.....	10,100,000.00
	<u>Reserve.....</u>
	\$ 3,280,000.00

1900.

Debt, January 1, 1900.....	\$ 6,820,000.00	
Pay bonds in 1900.....	\$404,830.00	
Pay notes	320,170.00	
	<u>\$735,000.00</u>	
Less Bridge Bonds, (renew)	100,000.00	635,000.00
	<u>-----</u>	<u>-----</u>
		\$ 6,185,000.00
Issue in 1900, Sewer dist. bonds.....	\$225,000.00	
St. Imp. Notes	350,000.00	575,000.00
	<u>-----</u>	<u>-----</u>
		\$6,760,000.00
Probable accretion of Sinking Funds.....		60,000.00
		<u>-----</u>
Probable net debt January 1, 1901.....	\$ 6,700,000.00	
Debt Limit January 1, 1901, estimated	10,200,000.00	
	<u>-----</u>	<u>-----</u>
Reserve.....	\$ 3,500,000.00	

By a conservative and judicious management of the funds of the city, the margins shown above will surely be sufficient to allow of the issuing of bonds from time to time in sufficient amounts to provide for the continuance of the work now under way, which is all that is contemplated, and which was originally mapped out with this end in view by the Citizens' Commission.

The relative position of the city of Cleveland so far as bonded indebtedness and tax rate is concerned with other large cities of the country, also argues well for our own municipality and seems to me to clearly justify the expenditure necessary to provide the city with a complete sewerage system, with better harbor facilities, with safe and modern bridges, with a purer water supply and with a new municipal building. While it is folly to presume that these improvements can be made without any increase of the bonded indebtedness of the city, it is, nevertheless, essential that there shall be no unwarranted extravagance in the public funds, nor on the other hand should the city be forced to occupy an inferior position for a lack of enterprise and public spiritedness on the part of its citizens. When we analyze the condition of other large cities and compare their indebtedness with that of Cleveland, we are easily convinced

that these other cities have assumed burdens which as yet we have never known and probably never will.

In deciding the question of what is best in Cleveland, we must be guided in a part by what other cities have done. If Cleveland is in a better position relatively than cities of the same class, so far as taxation and indebtedness go, then she can safely compete with them in attracting capital even if her indebtedness and tax rate should be somewhat increased. The following figures are the result of inquiries made within the last month from the Mayors or City Auditors of the cities named, and are therefore considered reliable. With one or two exceptions, no American city of 200,000 population or over has as small a debt as Cleveland. The average valuation of personal and real property in Cleveland is about 35 per cent. of its actual value, and the tax rate for all purposes, 2.93 per cent. Were property assessed for taxation at its real value in the city, as is contemplated by the State constitution, it would exceed \$400,000,000.

The same limit exists upon *Pittsburgh's* indebtedness as upon Cleveland's. It must be kept within 7 per cent. of the valuation. At the present time it is 4.6 per cent. of the valuation, while Cleveland's to-day is 5 per cent. Were the valuation of property for taxation in Cleveland its actual value, or 100 per cent., as is the case in Pittsburgh, we could carry a debt of over \$27,000,000 and still be within the 7 per cent. limit.

In other words, our present debt would be 1.8 per cent. of the real value instead of 5 per cent. Relative to the actual value of property in the two cities, Pittsburgh's indebtedness is a little over $2\frac{1}{2}$ times that of Cleveland.

What is true of Pittsburgh applies to every other great city in America. Cleveland's debt is smaller relatively than that of any other American city of the same size or larger. *Baltimore* has an indebtedness of nearly \$16,000,000 or 4.01 per cent. of the tax valuation. Her city officials report that the tax valuation of property is 80 per cent. of the real value; this being true, the indebtedness of Baltimore is 3.2 per cent. upon the real valuation of her property, or nearly double that of Cleveland.

The valuation of property for taxation in the city of *Boston* is \$1,012,557,256. Her officials report that this is 100 per cent. of the real value. In other words, property is assessed at ap-

proximately its actual value for taxation. Her indebtedness is \$50,340,115.37 or 4.97 per cent. of the valuation. In other words, in proportion to the valuation of property, it is almost three times as great as the indebtedness of Cleveland. Cleveland could carry \$17,000,000 of indebtedness and still have no greater debt in proportion than Boston.

The valuation of property for taxation in *Cincinnati* is \$198,536,580. Her indebtedness is \$25,951,348.65, or more than 13 per cent. A large part of this, however, is provided for by bonds of the Cincinnati Southern Railway Company, and the money was expended for the construction of that road. The tax valuation is reported by her city officials to be 59 per cent. of the actual value. On the same basis as Cincinnati, Cleveland could carry \$25,000,000 of indebtedness, or four times as much as at present.

Brooklyn, N. Y., has an indebtedness of nearly \$57,000,000 upon a tax valuation of \$603,796,463, or 9.43 per cent. of the tax valuation. Property is valued at 100 per cent. of its actual value, so that the indebtedness of the city amounts to 9.43 per cent. of the real value of the property in the city. This is an indebtedness in proportion to actual property valuation, $5\frac{1}{2}$ times as great as that of Cleveland. In other words, Cleveland on the basis of Brooklyn's debt, could carry \$38,000,000 of indebtedness.

The city of *Philadelphia* has \$35,479,579.93 of indebtedness, and the taxable valuation of property is \$840,000,000. The debt is 4.2 per cent. on the duplicate and the taxable valuation of property is about 75 per cent. of its actual value. In other words, the indebtedness of Philadelphia is 3.15 per cent. upon the real value of the property or 44 per cent. greater than Cleveland. Cleveland could carry nearly \$10,000,000 of indebtedness and still be no more heavily burdened, proportionately than is the City of Brotherly Love.

The city of *New York*, the national metropolis, has an indebtedness of nearly \$130,000,000. The debt is 5.9 per cent. of the tax duplicate. The duplicate is estimated to represent about 60 per cent. of the actual value of property. In other words the indebtedness is 3.6 per cent. of the real value of property, or twice as great as that of Cleveland. The City of Cleveland could

incur an indebtedness of \$12,000,000 and still be no more heavily burdened in proportion than is the City of New York.

On the basis of *New Orleans'* indebtedness, Cleveland could incur a debt of \$28,000,000, and on the basis of *St. Paul's* indebtedness \$17,000,000.

The following table gives in detail comparisons between fourteen of the leading cities of the United States in a form convenient for ready reference, and its perusal cannot fail to convince the reader that Cleveland is in a better position in pushing great public improvements than possibly any of the cities mentioned. The only city with which Cleveland does not compare favorably in the amount of indebtedness is Detroit, and had the City of the Straits been compelled to build bridges as Cleveland has, her debt would exceed ours. Her small debt is not due to better financial management, but to the fact that fewer and less costly public improvements have been made:

CITY.	TAX RATE.	Estimated Population.	NET DEBT.	VALUATION.	Per cent. of Valua- tion to Actual.
Baltimore.....	\$2.00	625,270	\$15,833,875.87	\$ 394,111,798	80%
Boston	1.30	550,000	50,340,115.37	1,012,557,256	100%
Buffalo.....	1.41	340,000	12,007,094.79	247,385,295	70%
Brooklyn.....	2.83	1,180,000	56,948,097.00	603,796,463	100%
Cincinnati.....	2.64	.....	25,951,248.65	198,536,580	59%
Cleveland	2.93	360,000	6,995,582.43	138,000,000	35%
Detroit.....	1.76	326,800	3,489,722.50	241,115,706	75%
Louisville	1.85	215,000	8,616,000.00	118,000,000	80%
Milwaukee	2.31	275,000	6,588,000.00	144,684,425	50%
New Orleans...	2.00	300,000	14,543,790.00	140,823,481	71%
New York.....	2.10	2,003,000	129,781,903.14	2,168,635,856	60%
Philadelphia ..	1.85	1,350,000	35,479,579.93	840,000,000	75%
Pittsburgh	1.30	287,500	12,134,555.29	258,828,334	100%
St. Paul.....	2.14	160,000	8,332,100.00	92,690,510	65%

CONCLUSION.

In advocating the expenditures referred to in the foregoing statement, my desire is to simply provide for the demands of our rapidly growing city, which demands have been seriously neglected to the city's detriment, I believe, in the past. There is nothing in the way of improvement that can make this city better than the people are not entitled to and do not want. The

Cleveland public is not niggardly nor parsimonious, but realizes, I am convinced, that a metropolitan city cannot be confined in village lines. A city is like an individual,—it must either go forward or backward. Growth is an element of progress; stagnation is an element of death.

The Cleveland of today, so far as extent and population is concerned, is a far different city from the Cleveland of fifteen or twenty years ago; nevertheless, little has been done to meet the requirements of its added greatness. While this city in the last thirty years has outclassed and surpassed in industrial standing the cities of Washington, Detroit, San Francisco, New Orleans, Buffalo, Louisville, Pittsburgh and Cincinnati, the time has come when attention must be given to needed improvements, if our proud station is to be maintained. The freight in this port is nearly 6,000,000 tons each year. At the present time, more than 5,000,000 tons are loaded and unloaded up the river. From that I draw the conclusion that the river is of the greatest importance, and we are doing everything to improve it. The fulfillment of plans in this connection is only blocked by the attitude of the Pennsylvania Company, in claiming the ownership of a piece of land which is directly in the way of our improvements. The company refused to arbitrate or do anything else. There is but one course open, and that is for the government to take the bull by the horns and compel the Pennsylvania Company to give up the land. The lake tonnage in Cleveland represents more than \$20,000,000, surpassing every American city except New York. The distributing equipment in the iron ore industry represents an actual investment of over \$80,000,000, this being naturally the greatest ore port in the world. Cleveland is the largest ship builder, save Liverpool. Her manufacturing establishments are unequalled and unexcelled in diversity and capacity. She is the economic center for the manufacture of iron and steel and other products. For the years 1894, 1895 and 1896 over \$15,000,000 was expended for buildings within the municipality.

The recital of such facts as the foregoing emphasizes the point that the contemplated expenditures for public improvements are small when compared with the vast interests which are benefited. For the expenditures already made, are not the results apparent? Our river and lake front improvements are

rapidly bringing our inner and outer harbor to the forefront among maritime cities. Our intercepting sewer system will give the city the best of drainage and sanitation. The new water tunnel will afford the best water supply of any American city. Our garbage disposal system will be modelled after the best modern methods. Our bridges and viaducts are far-famed, and should be kept so. Then our park system—this, too, as now contemplated and being constructed will give to our citizens and visiting guests the finest pleasure resorts of any American city. In addition to all these there should be no hesitancy in advancing every needed enterprise which will tend to upbuild and benefit this great municipality.

Speaking from a financial and business standpoint the credit of Cleveland is of the highest. Her bonds find a market as ready as those of any other city in America, in fact, a market far above that of most cities. The bonds issued in 1896 were sold on a $3\frac{5}{8}$ basis—that is, the premiums paid reduced the required interest from the city to this amount, while in 1897 the average sales were on a $3\frac{1}{2}$ basis; the latest sales to be made even reaching a $3\frac{1}{4}$ basis.

If in the approaching season of activity the era of progress upon which the city has entered shall be still further advanced, if all the citizens co-operate in the advancement of the common good of the municipality and join in those undertakings which will be of mutual benefit to all, the City of Cleveland will reach a position yet higher among the first cities of the land and will be in a good condition for the opening of the new century.

ROBERT E. MCKISSON,
Mayor of Cleveland.

STATEMENT.

The matters contained in the foregoing address were fully considered at meetings of sub-committees to which they were referred. Reports were drafted and were presented to the General Citizens' Committee, at a meeting held on February 14, 1898, in the Mayor's Office. There were present at this meeting the following citizens :

J. W. Conger, W. M. Day, C. J. Manix, Col. A. T. Van-Tassel, E. M. Folsom, T. W. Hill, A. G. Carpenter, H. W. S. Wood, Julius Feiss, Judge F. E. Dellenbaugh, John Meckes, Louis N. Weber, Milton Morton, and the Mayor, City Engineer Rawson, Assistant Engineer Force, and Deputy Auditor Crosby.

After carefully reviewing the deductions made by the sub-committees as well as their recommendations, the General Committee unanimously approved and adopted the reports which are found in full on the following pages.

REPORT

—OF—

CITIZENS' COMMITTEE ON RIVER AND LAKE FRONT IMPROVEMENTS.

Presented to General Citizens' Committee on Public Improve-
ments and Unanimously Approved and Adopted

February 14, 1898.

TO THE CITIZENS' COMMITTEE ON PUBLIC IMPROVEMENTS :

GENTLEMEN :

The undersigned members of your sub-committee appointed by the Mayor to consider the question of River and Lake Front Improvements; to examine more especially the manner in which the funds formerly obtained have been expended; and to submit recommendations relative to proposed additional expenditures for carrying on work now under way, beg leave to report as follows :

While some of the members of your committee were already familiar with the status of the improvements, having served on the advisory commission which co-operated with the city administration in planning and executing them, and other members were well informed as to their progress, yet a careful and systematic review of the situation has been made and such conclusions as have been reached are based thereon. The work of the committee has been expedited and simplified by access to detailed reports submitted by Deputy Auditor Crosby and City Engineer Rawson, the former dealing with the financial aspect of the question in hand and the latter with plans and maps showing what has been accomplished and what yet remains to be done.

From our study and observation of the improvements in the channel of the Cuyahoga river, we are convinced that the money expended in this connection has been wisely and economically

administered by the city officers and the River and Lake Front Commission. Two years ago practically no improvements of a permanent character had been made, the narrowness of the river being a subject of general condemnation by marine and shipping interests of our city. By applying a portion of the funds secured through authority of the last Legislature, to widening and straightening this stream, a passageway for vessels hitherto unrealized has been made. The results accomplished were clearly and concisely set forth in the Mayor's Address to the Citizens' Committee on January 28, which results, your sub-committee is convinced, are abundant proof that none of the money has been used ill-advisedly. We believe that if the plans now adopted are carried out, this important highway for inter-urban commerce will be placed in excellent condition to meet the demands to be made upon it by the rapidly increasing traffic to and from this city, for many years to come.

As for the money expended on improvements at the foot of Erie street, on the Lake Front, we are satisfied that it must be regarded as an investment which will bring the city great return in after years, the creation of landing places for vessels at this point being an enterprise to be generally commended from a business and financial standpoint. The older Cleveland is gradually but rapidly developing into a great metropolis, and the energies of municipal administrations may, in our judgment, well be turned to the extending of its capabilities and the enhancing of its attractions to commerce. We heartily approve the operations now in progress on the Lake Front and coincide with the Mayor in his recommendation that these improvements should receive special consideration from this time forth. When finally completed the Lake Front improvement now under way will give to the city, according to Engineer Rawson's estimate, sixty five acres of land admirably located for park or exposition purposes, or any other use to which the city may decide to put it, this land being worth many millions of dollars.

Your sub-committee, as the result of its deliberations, would therefore report briefly its conclusions and recommendations for your consideration as follows :

FIRST. That we approve the plans adopted by the Citizens' River and Lake Front Commission, as constituted heretofore, or the improvement of the Cuyahoga river and the Lake Front, believing these plans to have been wisely and properly laid.

SECOND. That we approve the expenditures made under the former legislative appropriation, and account the results accomplished fully commensurate with the outlay of funds.

THIRD. That we concur in the recommendation of the Mayor for continuing the improvements now under way unto as speedy completion as possible, realizing their importance to the commercial interests of our city.

FOURTH. That in order to provide funds necessary to carry forward this work, we recommend to the Cuyahoga delegation in the General Assembly that they use their best efforts to obtain for the city authority to issue \$1,000,000 additional bonds.

FIFTH. That in pursuance of the foregoing recommendations a bill similar to that passed at the last previous session of the General Assembly be drafted and introduced at as early a date as may be deemed advisable.

By way of conclusion your sub-committee desires to say that in its opinion the prosecution of the improvements referred to in this report will redound to our city's continued prosperity and militate toward its still greater growth and development. Plans are now under way for extensive improvements by the general government in the outer harbor, the sum of \$300,000 having been recommended for this work, in 1898, and it will be well for the federal and municipal enterprises to go hand in hand for the betterment of existing conditions. During the past year the lake traffic was by far the largest in the history of the trade. The present tonnage of the Great Lakes (i. e. the carrying capacity of vessels) is 1,410,000 or nearly one-third of the entire American merchant marine. The total tonnage handled at the port of Cleveland during 1896 was 5,332,656 tons, while the total tonnage for 1897 was 6,116,878 tons. The total value of freight, coastwise and foreign, handled at this port was \$650,084,589. When the immense interests at stake are considered, the appropriation recommended by your committee is small, we think, in comparison with the great advantages to be gained by making the improvements.

Your sub-committee, however, realizing the importance of the work on the Lake Front and the river bed below the Center street bridge, recommend that the improvement of the river above the Center street bridge be confined to such improvements as may be actually necessary, and that the treatment of the river

from the point named to the Lake, and the Old River Bed and the Lake Front, receive first attention at the hands of the city authorities.

N. A. GILBERT,
JACOB STEINFELD,
E. J. BLANDIN,
M. A. FORAN,
A. T. VAN TASSAL,
CHAS. W. CHASE.

February 14, 1898.

REPORT

—OF—

CITIZENS' COMMITTEE ON INTERCEPTING SEWERS, AND THE DIVERSION OF GIDDINGS BROOK.

Presented to General Citizens' Committee on Public Improvements, and Unanimously Approved and Adopted
February 14, 1898.

TO THE CITIZENS' COMMITTEE ON PUBLIC IMPROVEMENTS:

GENTLEMEN:

Your sub-committee appointed to examine into the advisability of obtaining authority from the General Assembly to issue \$1,000,000 additional bonds to provide for the continuance of work on the intercepting sewer system now under way in this city, beg leave to report as follows:

Believing this matter to be of vital importance to the welfare of the citizens, and the future growth and development of our city, the members of your committee have applied themselves to a very careful study of the plans which have been adopted for the relief of the present inadequate sewerage system, and to a review of the work already accomplished in order to arrive at conclusions upon which to base this report. At the first meeting of the committee a detailed statement was presented showing the amounts expended to date in sewer improvements, and outlining various amounts desired for the next two years, and for what purposes. The plans of the city engineers were fully explained with the aid of maps exhibited by Assistant Engineer Force, and the different features of the enterprises were thoroughly discussed at this and subsequent meetings. In our deliberations we have striven to eliminate all sectional prejudices, and rather to consider what is

best for the interests of the entire city and its inhabitants. It has been our purpose not so much to deal with preliminaries, these have been already ably cared for by our predecessors on former commissions, as to pass judgment upon the conduct of the improvements up to date, and to express our opinions touching the wisdom of advancing them along the lines now established. In other words, our duties were regarded by us as judiciary in so far as past actions were concerned, and as advisory with reference to the future.

In harmony with the first Citizens' Commission, appointed by the Mayor to consider public improvements, and with the expert sanitary commission selected in connection therewith, we fully endorse and approve the project for building a main intercepting sewer along the lake front, as now in progress, believing such sewer to be necessary for taking up the output of the many small sewers now running directly to the lake, befouling the entire water frontage, polluting the water supply of the city, and menacing public health. We consider the funds thus far expended on this improvement to have been well directed, and concur with the city administration in starting and pushing the West End interceptor before commencing portions elsewhere, this being in keeping with the contract entered into by the city when the village of West Cleveland was annexed. We agree with the city engineers in their proposal to undertake the extension of this section of the interceptor, this season, east from Algier street to Waverly avenue, and to build the Lake avenue section from the intersection of the L. S. & M. S. Railway to Lake avenue, west on Lake avenue to the city limits, thus laying the foundation for adequate sewer facilities for the rapidly growing district west of Pearl street and north of Lorain street. We are satisfied that work should also be undertaken upon the terminal facilities east of the city, and upon the eastern portion of this great sewer, and consider the proposed section from the city terminal point to Doan street, with a lateral main sewer in Doan street, from St. Clair street south, and another section between Murison street and Water street as of first importance.

As to the wisdom of building the Walworth sewer there has never been any doubt, the public having long demanded it as a relief and sanitary measure. While the cost of this sewer was estimated at \$800,000 it is now apparent from bids received that it will call for a little more than \$700,000. It is the opinion of your committee that this sewer, when completed, will be regarded

as a good investment not only for the vast extent of territory directly benefitted, but for the city at large. We find this improvement in a healthy state of progress, and believe that it is being well and satisfactorily managed.

A matter to which your committee has also directed its attention is the proposed diversion of Giddings Brook into Doan Brook. After examining this question from various standpoints we have concluded that this alteration is necessary as a health measure, and in order that relief may be afforded to the Cedar avenue, Woodland avenue, Euclid avenue, Superior street, and St. Clair street sewers, which are now taxed beyond their capacity.

Without burdening this report with detailed recitals of facts heretofore covered by previous committees, we would summarize our recommendations briefly as follows :

1. We approve the plans formerly adopted by the Citizens' Commission and the Council for the construction of the intercepting sewer system, believing that notwithstanding its considerable cost, the city will be fully compensated by the increased facilities afforded and the sanitary benefits to be derived, and that the wisdom of the authors will become more and more apparent as time goes on. We also approve the construction of the Walworth sewer according to the plans which are now being followed.

2. We believe, from our examinations, that the money obtained from bond issues to date in behalf of these improvements has been economically expended, and that the results are such as to meet the expectations of the tax-payers and general public.

3. We agree with the city administration in the proposed advancement of these improvements during the coming season, and assert our belief that the work laid out for 1898-99 is well chosen.

4. Knowing that great improvements of this character cannot be made without funds, and believing it to have been the intention of the original commission that authority to issue additional bonds should be asked as the progress of work might demand, we would recommend in accordance with estimates presented, that authority to issue \$1,000,000 additional bonds for sewer improvements be obtained from the State Legislature and that a bill similar to the one presented two years ago be introduced and passed.

5. In order to provide for the diversion of Giddings Brook we would further recommend that a bond issue of \$50,000 be allowed the city for this purpose, and that this important work may be undertaken and completed during the coming season.

While to some persons the issuance of bonds in accordance with these recommendations may seem somewhat extravagant, yet it must be remembered that other cities are making rapid strides and that Cleveland must not retain its village lines. The time has arrived for considering these questions on the proper plane of civic needs and civic patriotism. Although much has been done during the past two years in the way of public improvements much yet remains to be done, and all citizens, we believe, should work to a common end neither allowing personal interests nor personal animosities to interfere. What it is desired to do is to make Cleveland a better city in which to live. In this effort the various improvements now under way are interlinked and interdependent. If we would have a clean harbor we must have an intercepting sewer; and if we would have a pure water supply we must have a clean harbor. When all of the improvements now under way are completed we are sure that there will be cause for congratulation on the part of all citizens, and that whatever burden there may be it would not be comparable with the advantages gained.

Respectfully submitted,

HENRY W. S. WOOD,
C. J. MANIX,
A. G. CARPENTER,
J. W. CONGER,
LOUIS N. WEBER,
A. A. JACKSON,
E. WIEBENSON,
MILTON MORTON,
WILSON M. DAY.

February 14, 1898.

A NEW CITY HALL.

The Citizens of Cleveland Demand it as Shown in the
Following Report by a Representative
Committee.

CITY HALL COMMISSION.

A meeting of a commission of citizens appointed to consider the question of building a new City Hall was held in the Mayor's office Tuesday afternoon, February 22d, in response to the following letter :

“ The question of building a new City Hall commensurate with the needs of this municipality has been under discussion for a number of years. At a meeting of citizens held in the Mayor's office recently a plan by which such building may be realized was outlined, and action was taken looking to the further consideration of the matter by a special committee. I have selected you to serve upon this special committee, and hope that you will be able to accept. It has been suggested that Tuesday afternoon, February 22d, at 2 o'clock, will be a good time for the organization of the committee, and I therefore issue this call for that hour.

“ I trust that you will make a special effort to be present at this conference, which will take place in the Mayor's office, and give us the benefit of your counsel and advice.

“ROBERT E. MCKISSON.”

The following persons were present :

Julius Feiss, Wilson M. Day, V. C. Taylor, Jacob B. Perkins, Major W. J. Gleason, A. H. Weed, Esq., J. W. Conger, Henry W. S. Wood.

Two members were absent : T. W. Hill and James G. Fletcher.

The subject before the meeting was informally discussed for upwards of an hour by the various gentlemen, the unanimous opinion being that the city was in need of a new and adequate municipal building. This feeling was voiced in the following resolution which was adopted :

WHEREAS, There seems to be a general sentiment that the city of Cleveland should own its own municipal building, therefore be it

RESOLVED, That a sub-committee of five be appointed to make such investigations as they may deem advisable relative to the needs of the city in this direction and to suggest ways and means for meeting the same, this sub-committee to report to the general committee on City Hall at a meeting to be called by the Chairman.

After the Session the Mayor appointed as members of the sub-committee Messrs. Conger, Taylor, Perkins, Day and Feiss. These gentlemen fully considered the questions before them and presented the following report which was unanimously adopted by the general committee on February 28. 1898:

REPORT OF COMMITTEE ON CITY HALL.

FEBRUARY 28, 1898.

TO THE COMMITTEE ON CITY HALL.

GENTLEMEN:

Your sub-committee, to which was referred the resolution adopted one week ago calling for an investigation of the needs for a new municipal building and suggestions as to ways and means for obtaining the same, beg leave to report as follows:

First. The present rented quarters are utterly inadequate to meet the needs of today,—our city having outgrown in this respect, as it has in all others, the conditions of twenty-four years ago at which time the present building was constructed and Cleveland was a city of less than 100,000 inhabitants.

Second. The unprotected condition of the public records in the various city departments demands that immediate steps be taken to secure them against loss by fire or other causes, as no one can estimate from a monetary standpoint the enormous loss to the city should these records be destroyed, a danger which is constant under present conditions, and which, far more than any other reason, induces us not only to request, but emphatically urge, as an ordinary business precaution, that immediate steps be taken to render them secure. The only feasible and permanent remedy in our judgment is the erection of a municipal building which shall be fire proof and amply provided with safety vaults.

Third. The city has paid out for rents, taxes and repairs from 1874 to the present time over \$1,050,000.00 The question

as to the amount of money which would have to be annually expended in the future cannot be accurately computed, but we are confident that it would be largely in excess of that expended in past years. We believe, however, that the main question which confronts us and which in our judgment should far outweigh financial considerations is the adequate and absolute protection of public records and documents against loss or destruction.

After a careful personal inspection of the quarters of the various city departments, we have no hesitancy in saying that they are not only undesirable, but a disgrace to a city like Cleveland, emerging as it is from a rural into a metropolitan career.

In regard to the ways and means for procuring a City Hall, we are satisfied that the receipts from the gas companies, provided equally as good a contract as the existing one can be made with them at the time the present contract expires in 1902, will be amply sufficient to pay interest and principal on a bonded indebtedness of a million and a half dollars and leave a surplus in the fund, if we should at the present time issue bonds to the amount of a million and a half dollars drawing 4 per cent. interest, payable in twenty years. (As to the details of which, see appended statement submitted by the city auditor to your committee.)

We are satisfied that a personal inspection of the present city quarters by any citizen will convince him of the necessity for a new municipal building. After carefully looking into the cost of new municipal buildings in a number of other leading cities we are confident that a building and land amply adequate in every respect can be secured for one and a half million dollars. We therefore recommend that immediate steps be taken to secure the erection of a City Hall, the cost of which, including land, shall not exceed that amount, and that bonds bearing 4 per cent. interest be issued for this purpose

J. W. CONGER,
JACOB PERKINS,
WILSON M. DAY,
V. C. TAYLOR,
T. W. HILL,
WM. J. GLEASON,
HENRY W. S. WOOD,
JULIUS FEISS.

STATEMENT OF CITY AUDITOR.

FEBRUARY 25, 1898.

MR. J. W. CONGER, Chairman.

DEAR SIR : —I herewith hand you a statement, First, of the condition of the City Hall Sinking Fund at the present time and the probable accretions to same in the future. The city has received from the gas companies up to the present time

Received in 1893.....	\$ 42,113 00
“ “ 1894.....	45,044 48
“ “ 1895.....	50,445 96
“ “ 1896.....	55 462 07
“ “ 1897.....	58,310 97
“ first payment of 1898.....	30,177 16
Earning on same.....	20,251 12
	<hr/>
	\$301,804 76

Should the city this year issue \$1,500,000.00 of four per cent. twenty year bonds, we would in all probability receive on same a premium of \$164 550 00; assuming that they would be sold on a basis of $3\frac{1}{4}$ per cent. (the last three sales of city bonds have been on this basis or better). Adding to this the amount already in the sinking fund and \$30,000.00 estimated receipts from the gas companies during the balance of the year 1898, and accretion from funds in hands of commissioners, would make an approximate total value of the sinking fund at the end of 1898 of \$502,000.00.

The following tables show you the probable amount which will be received from the gas companies; the interest earned by the City Hall Sinking Fund, estimating the interest at 4 per cent. (whereas in reality it is earning at the present time 5 per cent.); the amount of interest which would be paid out yearly on a million and a half of bonds; the net increase in the value of the City Hall Sinking Fund, and the total value of the same at the end of each year:

	Receipts from Gas Companies.	Interest on Sinking Fund.	Interest on Bonds.	Net Increase in Sinking Fund.	Total Value of Sinking Fund.
1898					\$ 502 000
1899	\$62,000	\$20,080	\$60,000	\$ 22,080	524 000
1900	64,000	20,960	60,000	24,960	548,000
1901	66,000	21,920	60,000	28,920	576,900
1902	68,000	23,076	60,000	31,076	607,900
1903	70,000	24,316	60,000	34,316	642,200
1904	72,000	25 688	60,000	37,688	680,000
1905	74,000	27,200	60,000	41,200	721,200
1906	76,000	28,848	60,000	44,848	766,000
1907	78,000	30,640	60,000	48,640	814,600
1908	80 000	32,584	60,000	52,584	867,200
1909	82,000	34,688	60,000	56,688	923,900
1910	84,000	36,956	60,000	60,956	984,800
1911	86 000	39,392	60,000	65,392	1,050,200
1912	88 000	42 008	60,000	70,000	1,120,200
1913	90,000	44,808	60 000	74,808	1,194,800
1914	92 000	47,792	60,000	79,792	1,274,600
1915	94,000	50,984	60,000	84 984	1,359,600
1916	96 000	54,384	60 000	90,384	1,450,000
1917	98,000	58,000	60,000	96 000	1,546,000
1918	100,000	61,840	60 000	101 840	1,647,840

The estimate of the receipts from the gas companies is based upon the supposition that at the expiration of the present contract in 1902, the city will be able to make a contract with the companies equally as good as the present one, and that the receipts will increase each year \$2,000 —while in fact the yearly increase has been in the past nearly \$5,000. From the above table it will be seen that twenty years from the present time the value of the City Hall Sinking Fund will be \$1,647,840, after having taken care of the interest on the bonds issued for City Hall purposes, or in other words, the amount received for the gas companies will have been sufficient to have paid the interest on the bonds issued, pay the bonds at maturity, and leave a surplus of \$147,840 in the fund. So that land could be acquired and a new City Hall built immediately without taxing the people either directly or indirectly for the payment of interest or principal of bonded indebtedness, inasmuch as the fund derived from the gas companies will more than meet all obligations and cannot be used for other purposes.

Second. Of the amount of money paid out by the city for the present City Hall, including rent, taxes and repairs. The

figures for the years 1892, 1893, 1894, 1895 and 1896, 1897 and 1874 are correct. Those for the other years are estimates and cannot be given accurately for the reason that the city records previous to the year 1892 were kept in such shape that it is impossible to give correct figures on these items previous to that time. The amount, however, paid out for rent has been the same for the whole period from 1874 to the present, viz : \$36,000 00 per year.

COST OF CITY HALL.

Year.	Rent and Taxes.	Repairs.	Total.
1897	\$42,210 33	\$2,499 86	\$44,710 19
1896	42,077 97	1,774 68	43,852 65
1895	42,363 92	2,771 93	45,135 85
1894	42,809 92	2,311 92	45,121 84
1893	42,159 21	4,591 85	46,751 06
1892	44,557 18	6,779 60	51,336 78

From 1874 to 1892 I estimate there was paid out annually an average amount of \$40,000; in 1874, according to the Mayor's annual message for that year, there was paid out for rent, \$30,000 ; and for putting building in suitable condition to be occupied, \$45,061.22. Making a total amount paid out \$1,031,969.59.

We receive for rents at the present time about \$7,000 annually, estimating the receipts for rent during the entire period at \$8,000 annually, would make a total receipt for rent, \$192,000. Deducting this from the amount paid out would leave us a net expenditure of \$840,000 for twenty-four years or an average net annual expenditure of \$35,000.

Respectfully submitted,

H. L. ROSSITER,

City Auditor.

STATEMENT

Showing Value of City Hall Sinking Fund in 1928, after
Having Taken Care of Interest on \$1,500,000
4 Per Cent. 30 Year Bonds.

	Receipts from Gas Companies	Interest on Sinking Fund.	Interest on Bonds.	Net Increase in Sinking Fund.	Total Value of Sinking Fund.
1898	.....	.....	.....	.....	\$ 502,000
1899	\$ 62,000	\$ 20,080	\$60,000	\$ 22,080	524,000
1900	64,000	20,960	60,000	24,960	548,000
1901	66,000	21,958	60,000	27,958	576,900
1902	68,000	23,076	60,000	31,078	607,900
1903	70,000	24,316	60,000	34,316	642,200
1904	72,000	25,688	60,000	37,688	680,000
1905	74,000	27,200	60,000	41,200	721,200
1906	76,000	28,848	60,000	44,848	760,000
1907	78,000	30,640	60,000	48,640	814,600
1908	80,000	32,584	60,000	52,584	867,200
1909	82,000	34,688	60,000	56,688	923,900
1910	84,000	36,956	60,000	70,596	984,800
1911	86,000	39,392	60,000	65,392	1,050,200
1912	88,000	42,008	60,000	70,000	1,120,200
1913	90,000	44,808	60,000	74,808	1,194,800
1914	92,000	47,792	60,000	79,792	1,374,600
1915	94,000	50,984	60,000	84,984	1,359,600
1916	96,000	54,384	60,000	90,384	1,450,000
1917	98,000	58,000	60,000	96,000	1,546,000
1918	100,000	61,840	60,000	101,840	1,647,840
1919	102,000	65,912	60,000	107,900	1,755,700
1920	104,000	70,288	60,000	114,200	1,869,900
1921	106,000	74,796	60,000	120,796	1,990,700
1922	108,000	79,628	60,000	127,628	2,118,300
1923	110,000	84,738	60,000	134,732	2,253,000
1924	112,000	90,120	60,000	142,120	2,395,100
1925	114,000	95,804	60,000	149,804	2,544,900
1926	116,000	101,796	60,000	157,796	2,702,700
1927	118,000	108,108	60,000	168,108	2,868,800
1928	120,000	114,752	60,000	174,752	3,043,500

